



AME

AME8853A

High PSRR, Low Noise, 300mA  
CMOS Regulator

## ■ General Description

The AME8853A family of positive, CMOS linear regulators provide low dropout voltage(220mV@300mA), low quiescent current, and low noise CMOS LDO. These rugged devices have both Thermal Shutdown, and Current limit to prevent device failure under the "Worst" of operating conditions.

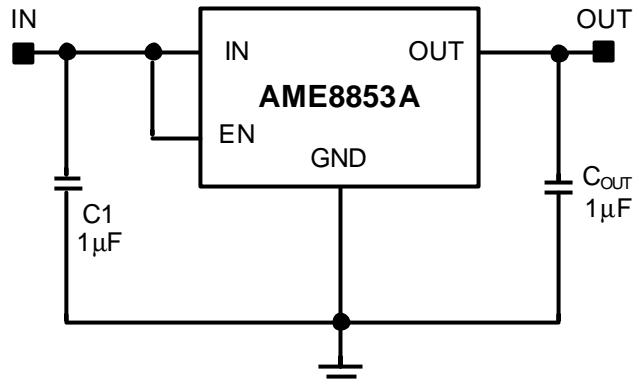
## ■ Features

- Low Dropout Voltage: 220mV@300mA
- Guaranteed Current: 300mA
- Quiescent Current: 60 $\mu$ A (typ.)
- Over-Temperature Shutdown
- Current Limiting protection
- PSRR: 60dB@10KHz
- Ultra-Low-Noise: 100 $\mu$ V<sub>RMS</sub> at 1Hz to 100KHz
- Low Temperature Coefficient
- Input Voltage Range : 2.5V~5.5V
- Output Voltage Range: 0.8V~ 4.3V
- Green Products Meet RoHS Standards

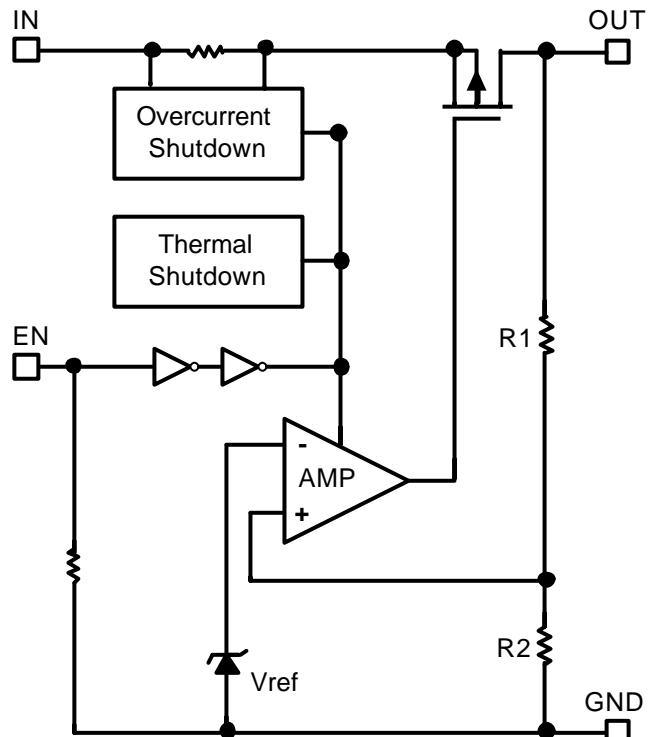
## ■ Applications

- Instrumentation
- Portable Electronics
- Wireless Devices
- Cordless Phones
- PC Peripherals
- Battery Powered Widgets

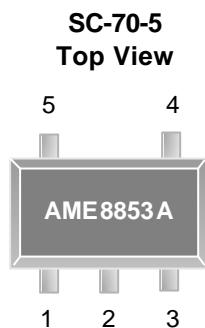
## ■ Typical Application



## ■ Functional Block Diagram

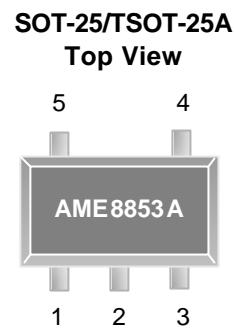


## ■ Pin Configuration



**AME8853A-AIVxxx**

1. IN
2. GND
3. EN
4. NC
5. OUT

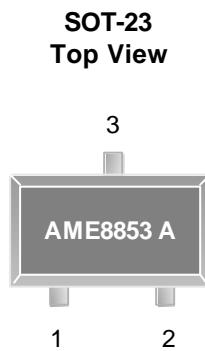


**AME8853A-AEVxxxx**

1. IN
2. GND
3. EN
4. NC
5. OUT

\* Die Attach:  
Conductive Epoxy

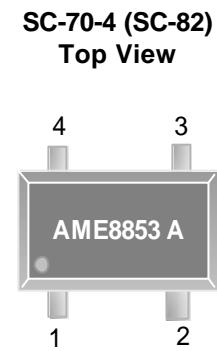
\* Die Attach:  
Conductive Epoxy



**AME8853A-AETxxx**

1. GND
2. OUT
3. IN

\* Die Attach:  
Non-Conductive Epoxy



**AME8853A-AIUxxx**

1. EN
2. GND
3. OUT
4. IN

\* Die Attach:  
Conductive Epoxy



AME

AME8853A

High PSRR, Low Noise, 300mA  
CMOS Regulator

## ■ Pin Description

SC-70-5

Pin Number	Pin Name	Pin Description
1	IN	Input voltage pin; should be decoupled with 1µF or greater capacitor.
2	GND	Ground connection pin.
3	EN	Enable pin, Active "high". When pulled "low", the PMOS pass transistor turns off, current consuming less than 1µA. When EN pin floating outside, it is pulled low by internal small current source.
4	NC	No connection.
5	OUT	LDO voltage regulator output pin; should be decoupled with a 1.0µF or greater value low ESR ceramic capacitor.

SOT-25/TSOT-25A

Pin Number	Pin Name	Pin Description
1	IN	Input voltage pin; should be decoupled with 1µF or greater capacitor.
2	GND	Ground connection pin.
3	EN	Enable pin, Active "high". When pulled "low", the PMOS pass transistor turns off, current consuming less than 1µA. When EN pin floating outside, it is pulled low by internal small current source.
4	NC	No connection.
5	OUT	LDO voltage regulator output pin; should be decoupled with a 1µF or greater value low ESR ceramic capacitor.

## ■ Pin Description (Contd.)

SOT-23

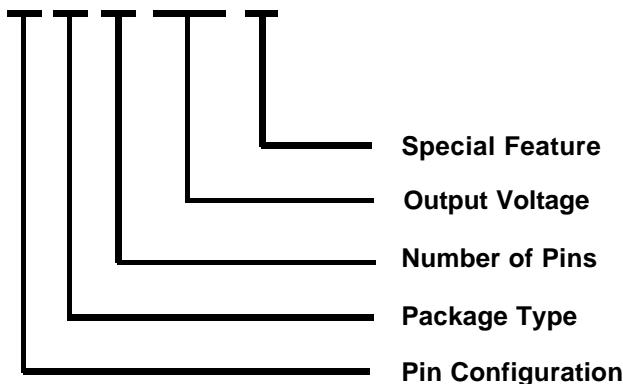
Pin Number	Pin Name	Pin Description
1	GND	Ground connection pin.
2	OUT	LDO voltage regulator output pin; should be decoupled with a 1µF or greater value low ESR ceramic capacitor.
3	IN	Input voltage pin; should be decoupled with 1µF or greater capacitor.

SC-70-4(SC-82)

Pin Number	Pin Name	Pin Description
1	EN	Enable pin, Active "high". When pulled "low", the PMOS pass transistor turns off, current consuming less than 1µA. When EN pin floating outside, it is pulled low by internal small current source.
2	GND	Ground connection pin.
3	OUT	LDO voltage regulator output pin; should be decoupled with a 1.0µF or greater value low ESR ceramic capacitor.
4	IN	Input voltage pin; should be decoupled with 1µF or greater capacitor.

## ■ Ordering Information

**AME8853A - x x x XXX x**



Pin Configuration	Package Type	Number of Pins	Output Voltage	Special Feature
A 1. IN (SC-70-5) 2. GND 3. EN 4. NC 5. OUT	E: SOT-2X I: SC-70 (SC-82)	T: 3 U: 4 V: 5	080: 0.8V 090: 0.9V 100: 1.0V 110: 1.1V 120: 1.2V 130: 1.3V 140: 1.4V 150: 1.5V 180: 1.8V 250: 2.5V 280: 2.8V : 420: 4.2V 430: 4.3V	N/A: SOT-2X K: 0.9mm max height (for TSOT-2XA Only)
A 1. IN (SOT-25) (TSOT-25A) 2. GND 3. EN 4. NC 5. OUT				
A 1. EN (SC-70-4/ SC-82) 2. GND 3. OUT 4. IN				
A 1. GND (SOT-23) 2. OUT 3. IN				

## ■ Absolute Maximum Ratings

Parameter	Symbol	Maximum	Unit
Input Voltage	$V_{IN}$	-0.3 to 6	V
EN Voltage	$V_{EN}$	-0.3 to 6	V
Output Current	$I_{OUT}$	$P_D/(V_{IN}-V_{OUT})$	mA
Output Voltage	$V_{OUT}$	GND-0.3 to $V_{IN}+0.3$	V
ESD Classification	HBM	2	kV
	MM	200	V

## ■ Recommended Operating Conditions

Parameter	Symbol	Rating	Unit
Ambient Temperature Range	$T_A$	- 40 to +85	°C
Junction Temperaturen Range	$T_J$	- 40 to +125	°C
Storage Temperaturen Range	$T_{STG}$	- 65 to +150	°C

## ■ Thermal Information

Parameter	Package	Die Attach	Symbol	Maximum	Unit
Thermal Resistance* (Junction to Case)	SC-70-5	Conductive Epoxy	$\theta_{JC}$	224	°C / W
	SC-70-4(SC-82)			81	
	SOT-25			81	
	TSOT-25A			140	
	SOT-23	Non-Conductive Epoxy			
Thermal Resistance (Junction to Ambient)	SC-70-5	Conductive Epoxy	$\theta_{JA}$	331	°C / W
	SC-70-4(SC-82)			260	
	SOT-25			230	
	TSOT-25A			280	
	SOT-23	Non-Conductive Epoxy			
Internal Power Dissipation	SC-70-5	Conductive Epoxy	$P_D$	300	mW
	SC-70-4(SC-82)			400	
	SOT-25			455	
	TSOT-25A			400	
	SOT-23	Non-Conductive Epoxy			
Lead Temperature (Soldering, 10Sec.)**				260	°C

\* Measure  $\theta_{JC}$  on backside center of molding compound if IC has no tab.

\*\* MIL-STD-202G 210F

## ■ Electrical Specifications

$V_{IN} = V_{OUT(NOM)} + 1V$ , (for  $V_{OUT} < 2V$ ,  $V_{IN} = 2.5V$ ),  $I_{OUT} = 1mA$ , and  $C_{OUT} = 1\mu F$ ,  $C_{IN} = 1\mu F$  unless otherwise noted.  
Typical values are at  $T_A = 25^\circ C$ .

Parameter	Symbol	Test Condition	Min	Typ	Max	Units
Input Voltage	$V_{IN}$		2.5		5.5	V
Output Accuracy	$V_{OUT,ACC}$	$I_{OUT} = 1mA$	-2.0		2.0	%
Output Voltage Range	$V_{OUT}$		0.8		4.3	V
Dropout Voltage (Note 1)	$V_{DROP}$	$I_{OUT} = 300mA$ , 0.8V $V_{OUT(NOM)}$ 2.0V			Note2	mV
		$I_{OUT} = 300mA$ , 2.0V $< V_{OUT(NOM)}$ 2.4V			500	
		$I_{OUT} = 300mA$ , 2.4V $< V_{OUT(NOM)}$ 2.8V			400	
		$I_{OUT} = 300mA$ , 2.8V $< V_{OUT(NOM)}$	220		300	
Output Current	$I_{OUT}$		300			mA
Quiescent Current	$I_Q$	$I_{OUT} = 0mA$		60	90	$\mu A$
Line Regulation $\frac{\Delta V_{OUT}}{\Delta V_{IN}} \times 100\%$	REG <sub>LINE</sub>	$I_{OUT} = 1mA$ , 0.8V $V_{OUT}$ 1.2V, 2.5V $V_{IN}$ 3.5V		0.125	0.25	%/V
		$I_{OUT} = 1mA$ , 1.2V $< V_{OUT}$ 2.0V, 2.5V $V_{IN}$ 3.5V		0.1	0.2	
		$I_{OUT} = 1mA$ , 2.0V $< V_{OUT}$ 4.2V, $V_{IN(MIN)}$ $V_{IN}$ $V_{IN(MIN)} + 1V$		0.05	0.1	
		$I_{OUT} = 1mA$ , 4.2V $< V_{OUT}$ 4.5V, $V_{IN(MIN)}$ $V_{IN}$ 5.5V		0.05	0.1	
Load Regulation $\frac{\Delta V_{OUT}}{V_{OUT}} \times 100\%$	REG <sub>LOAD</sub>	$1mA$ $I_{OUT}$ 300mA 0.8V $V_{OUT(NOM)}$ 1.2V		1.5	3.0	%/A
		$1mA$ $I_{OUT}$ 300mA 1.2V $V_{OUT(NOM)}$ 2.0V		1.25	2.5	
		$1mA$ $I_{OUT}$ 300mA 2.0V $< V_{OUT(NOM)}$		1.0	2	

## ■ Electrical Specifications (Contd.)

Parameter	Symbol	Test Condition	Min	Typ	Max	Units
Power Supply Rejection Ration	PSRR	$C_{OUT}=1\mu F, V_{OUT}=0.8V$	$F=100Hz$	60		dB
		$I_{OUT}=10mA$	$F=1KHz$	60		
		$V_{IN}=2.8V$	$F=10KHz$	60		
Output Voltage Noise	eN	$I_{OUT}=10mA, V_{OUT}=0.8V,$ $f=1Hz \text{ to } 100KHz$		100		$\mu V_{RMS}$
Enable High (enabled)	$V_{EN,HI}$	$V_{IN(MIN)} \leq V_{IN} \leq 5.5V$	1.4		$V_{IN}$	V
Enable Low(shutdown)	$V_{EN,LO}$	$V_{IN(MIN)} \leq V_{IN} \leq 5.5V$	0		0.4	
Enable Input Bias Current	$I_{EN,HI}$	$V_{EN} = V_{IN}$			8	$\mu A$
	$I_{EN,LO}$	$V_{EN} = 0V$			1	
Shutdown Current	$I_{SHDN}$	$V_{IN}=5.0V, V_{EN}=0V$	0.1	1		$\mu A$
Shutdown Output Voltage	$V_{OUT,SD}$	$I_{OUT}=0.4mA, V_{EN}=0$			0.4	V
<b>Protection</b>						
Output Current Limit	$I_{LIM}$	$V_{OUT}=0.9 \times V_{OUT(NOM)}$	400			mA
Thermal Shutdown Temperature	$T_{SHDN}$	Shutdown, temperature increasing		150		$^{\circ}C$
Thermal Shutdown Hysteresis	$T_{SHDN(HYS)}$			20		

Note1: Dropout Voltage is measured at  $V_{OUT}=V_{OUT(NOM)} \times 98\%$

Note2: For  $V_{OUT}$  below 2.0V, Dropout Voltage is the input<sub>(MIN)</sub> to output differential.

## ■ Detailed Description

The AME8853A family of CMOS regulators contain a PMOS pass transistor, voltage reference, error amplifier, over-current protection thermal shutdown, and Power Good detection circuitry.

The P-channel pass transistor receives data from the error amplifier, over-current shutdown, and thermal protection circuits. During normal operation, the error amplifier compares the output voltage to a precision reference. Over-current and Thermal shutdown circuits become active when the junction temperature exceeds 150°C, or the current exceeds 300mA. During thermal shutdown, the output voltage remains low. Normal operation is restored when the junction temperature drops more 20°C.

### Capacitor Selection and Regulator Stability

The AME8853A is stable with an output capacitor to ground of 1 $\mu$ F or greater. Ceramic capacitors have the lowest ESR, and will offer the best AC performance. Conversely, Aluminum Electrolytic capacitors exhibit the highest ESR, resulting in the poorest AC response. Unfortunately, large value ceramic capacitors are comparatively expensive. One option is to parallel a 0.1 $\mu$ F ceramic capacitor with a 10 $\mu$ F Aluminum Electrolytic. The benefit is low ESR, high capacitance, and low overall cost.

A second capacitor is recommended between the input and ground to stabilize V<sub>IN</sub>. The input capacitor should be at least 0.1 $\mu$ F to have a beneficial effect.

### Enable Pin

The Enable Pin is pull-low. When activated pulled low, the MOS pass transistor shuts off, and all internal circuits are powered down. In this state, the stand by current is less than 1 $\mu$ A.

### Capacitor Selection and Regulator Stability

The maximum output power of the AME8853A is limited by the maximum power dissipation of the package. By calculation the power dissipation of the package as a function of the input voltage, output voltage and output current, the maximum input voltage can be obtained. The maximum power dissipation should not exceed the package's maximum power rating.

$$P_{MAX} = (V_{IN(MAX)} - V_{OUT}) \times I_{OUT}$$

Where:

V<sub>IN(MAX)</sub> = maximum input voltage

P<sub>MAX</sub> = maximum power dissipation of the package

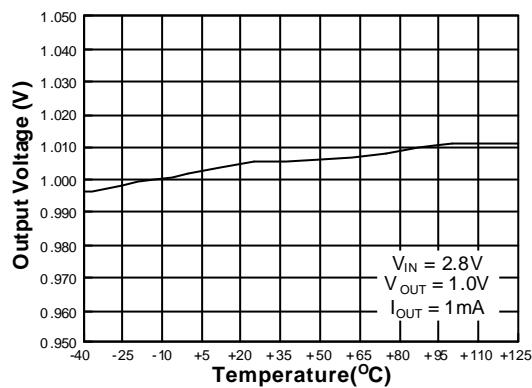
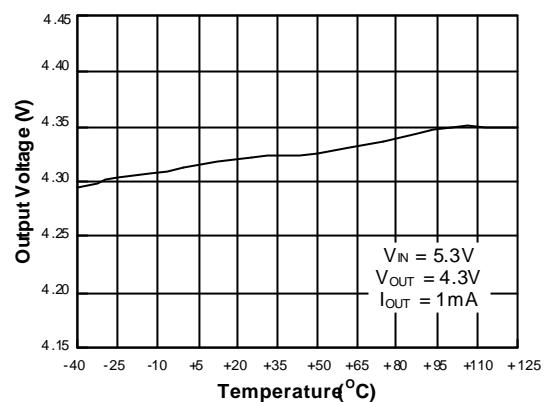
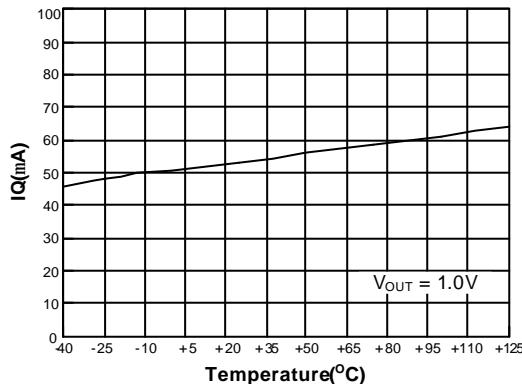
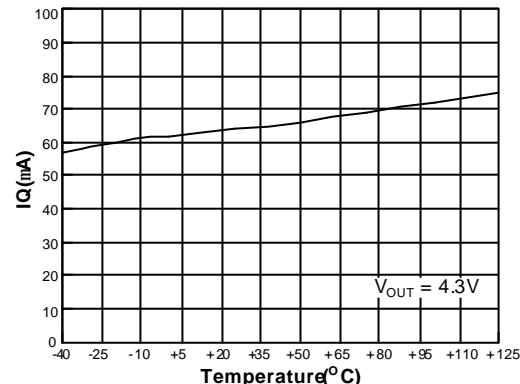
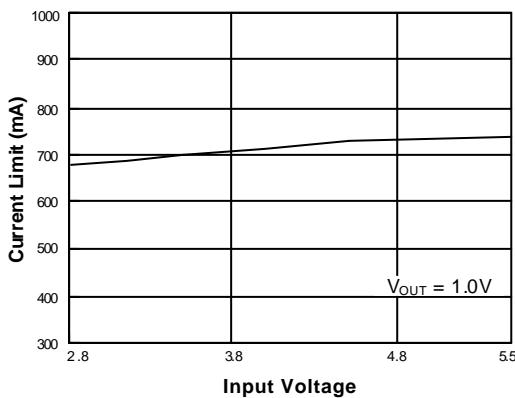
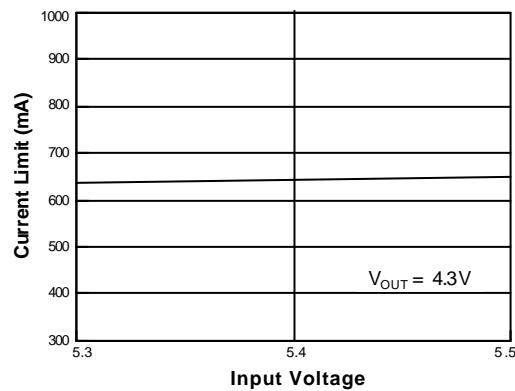


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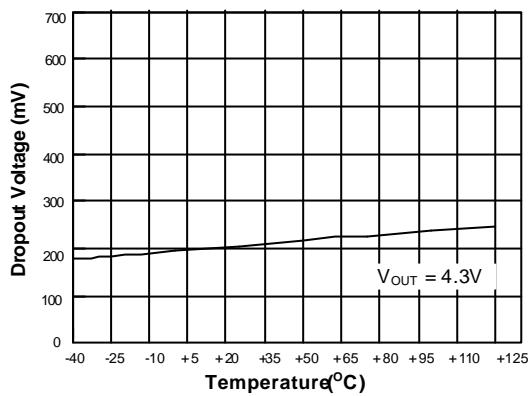
**High PSRR, Low Noise, 300mA  
CMOS Regulator**

## ■ Characterization Curve

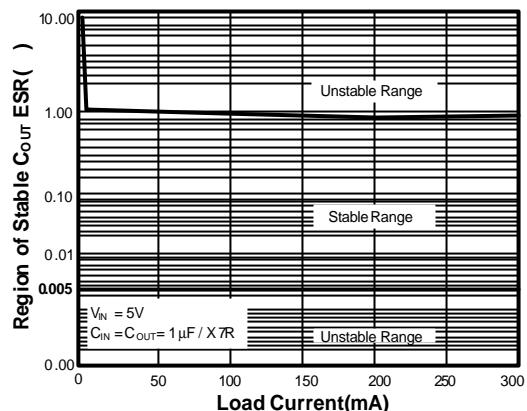
**Output Voltage****Output Voltage****Quiescent Current****Quiescent Current****Current Limit vs. Input Voltage****Current Limit vs. Input Voltage**

## ■ Characterization Curve (Contd.)

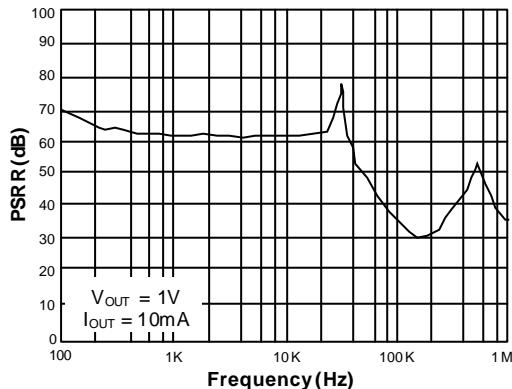
**Dropout Voltage**



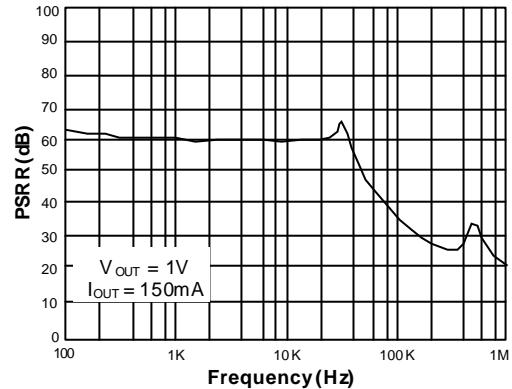
**Stability vs. ESR vs. Load Current**



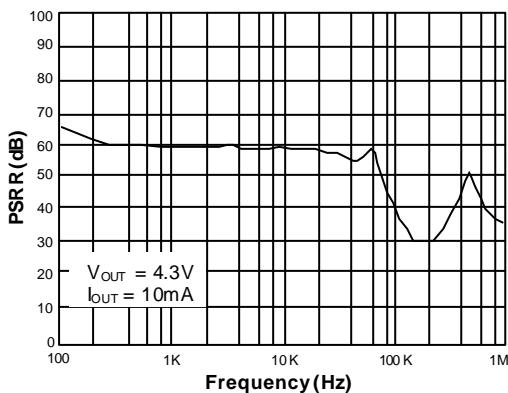
**PSRR vs. Frequency**



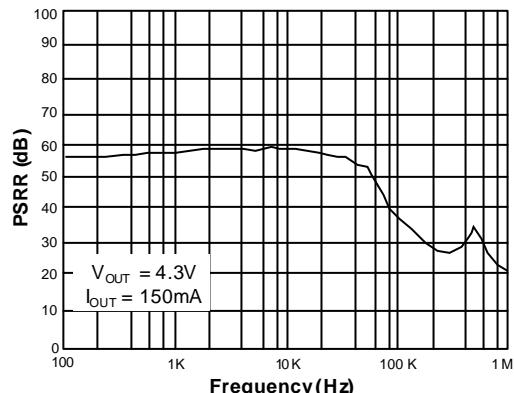
**PSRR vs. Frequency**



**PSRR vs. Frequency**

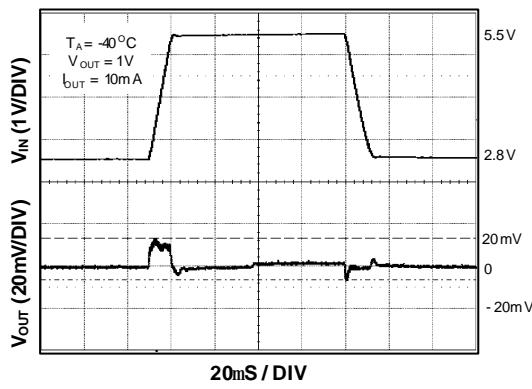


**PSRR vs. Frequency**

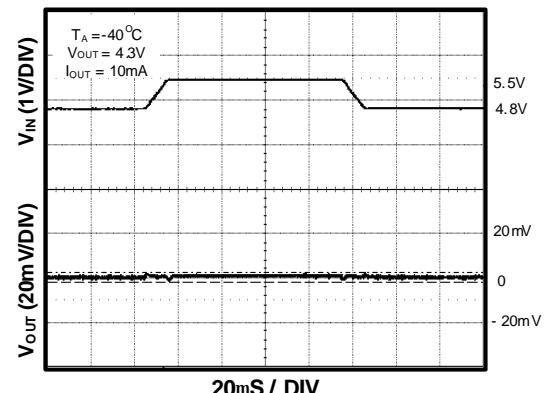


## ■ Characterization Curve (Contd.)

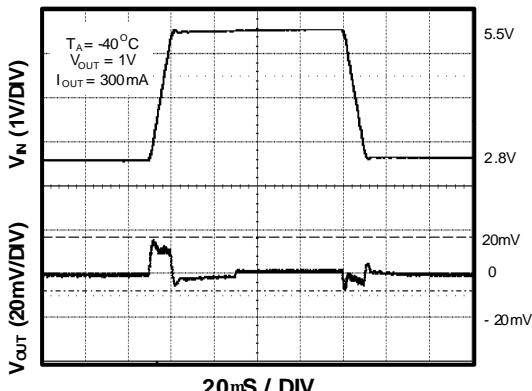
**Line Transient Response**



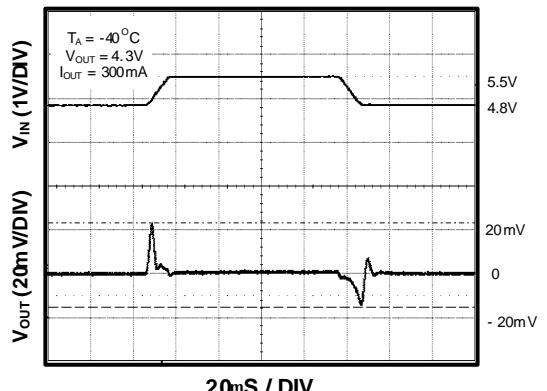
**Line Transient Response**



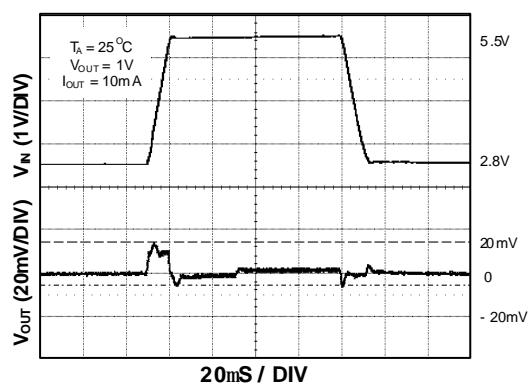
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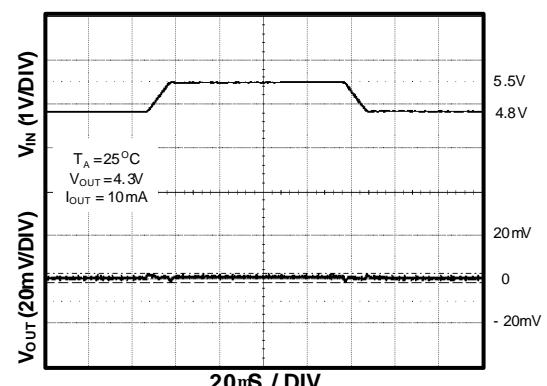
**Line Transient Response**



**Line Transient Response**

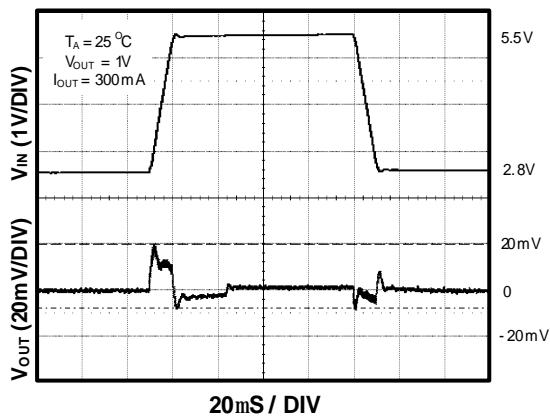


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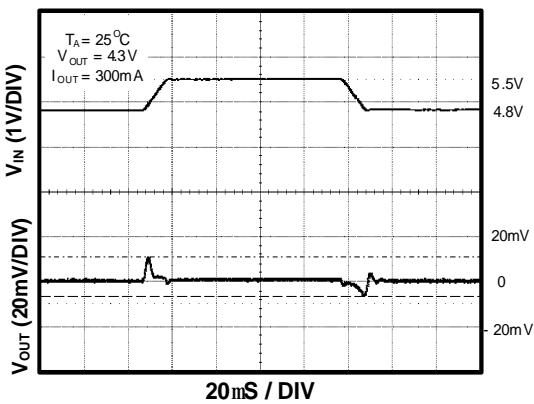


## ■ Characterization Curve (Contd.)

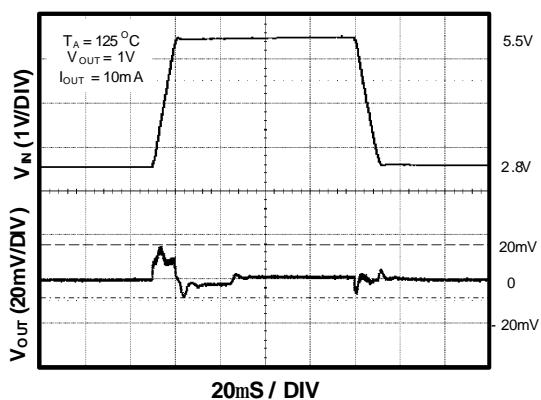
**Line Transient Response**



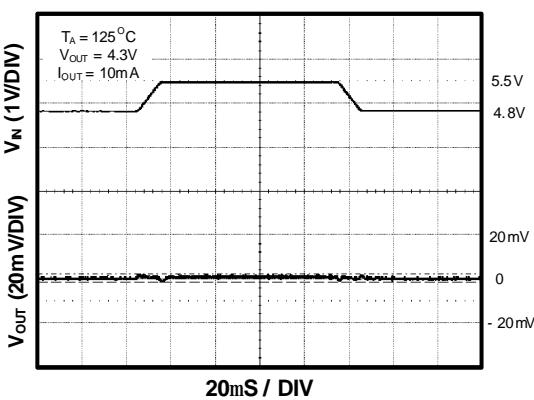
**Line Transient Response**



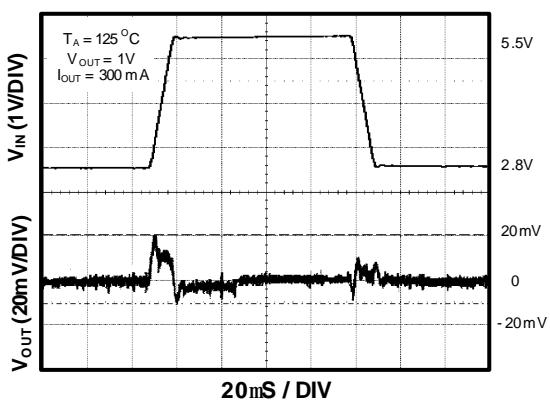
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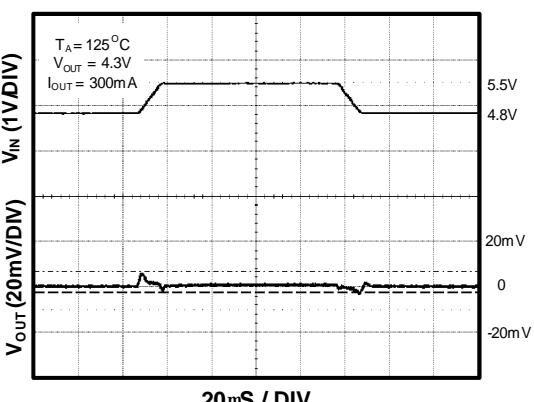
**Line Transient Response**



**Line Transient Response**

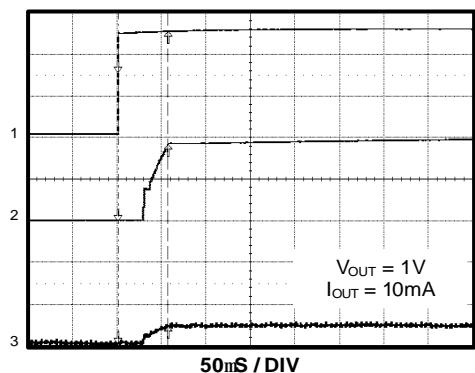


**Line Transient Response**



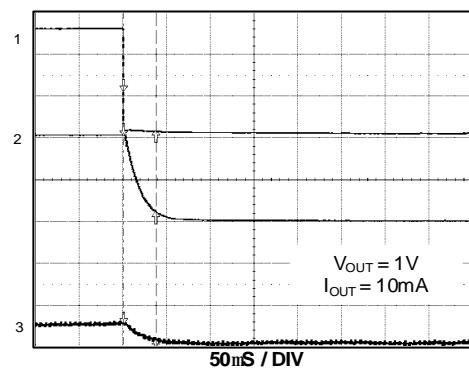
## ■ Characterization Curve (Contd.)

**Chip Enable Transient Response**



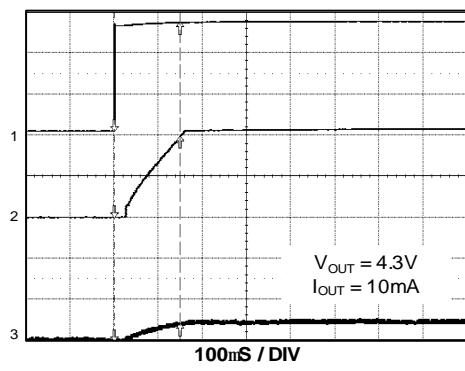
- 1) EN= 1V/div
- 2) V<sub>OUT</sub>= 500mV/div
- 3) I<sub>OUT</sub> = 20mA/div

**Chip Enable Transient Response**



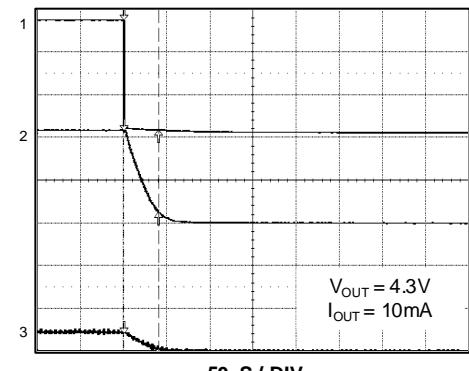
- 1) EN= 1V/div
- 2) V<sub>OUT</sub>= 500mV/div
- 3) I<sub>OUT</sub> = 20mA/div

**Chip Enable Transient Response**



- 1) EN= 2V/div
- 2) V<sub>OUT</sub>= 2V/div
- 3) I<sub>OUT</sub> = 20mA/div

**Chip Enable Transient Response**



- 1) EN= 2V/div
- 2) V<sub>OUT</sub>= 2V/div
- 3) I<sub>OUT</sub> = 20mA/div



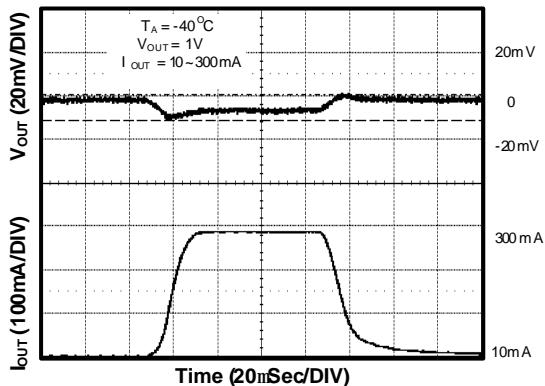
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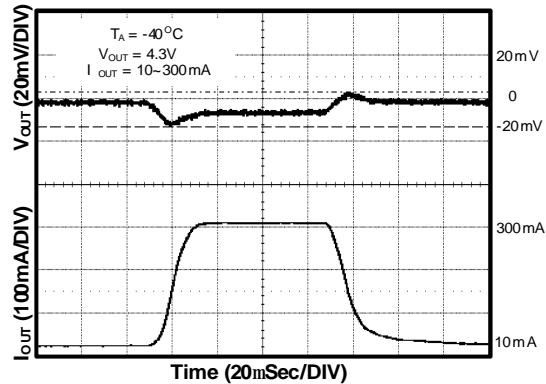
**High PSRR, Low Noise, 300mA  
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## ■ Characterization Curve (Contd.)

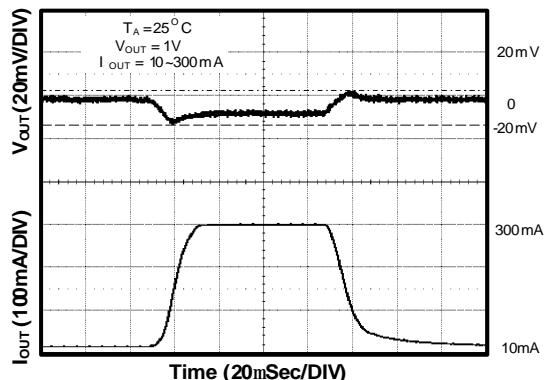
Load Transient Response



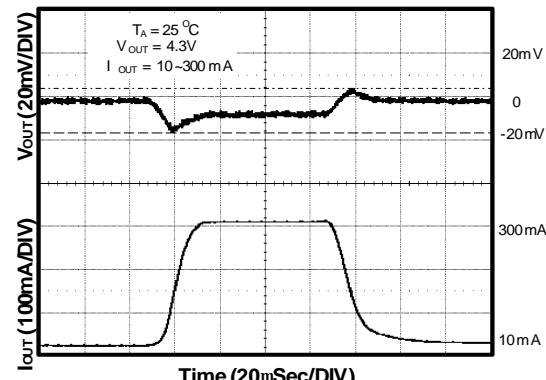
Load Transient Response



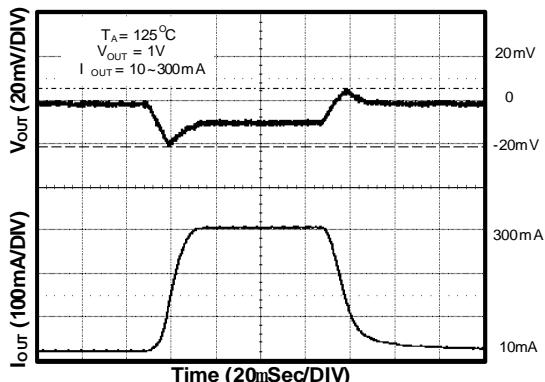
Load Transient Response



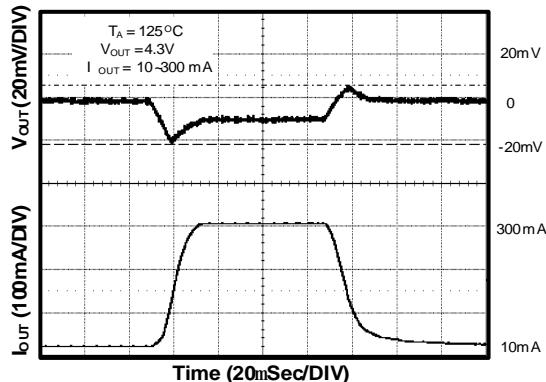
Load Transient Response



Load Transient Response

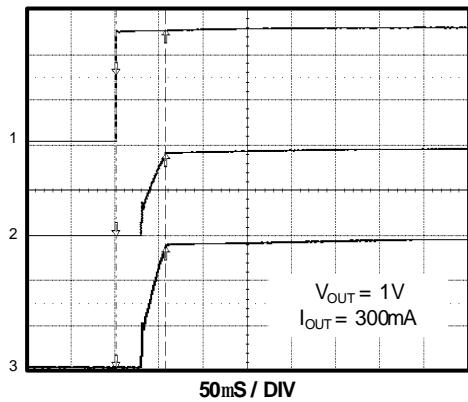


Load Transient Response



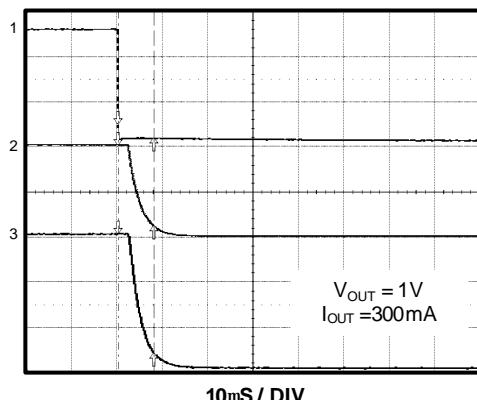
## ■ Characterization Curve (Contd.)

**Chip Enable Transient Response**



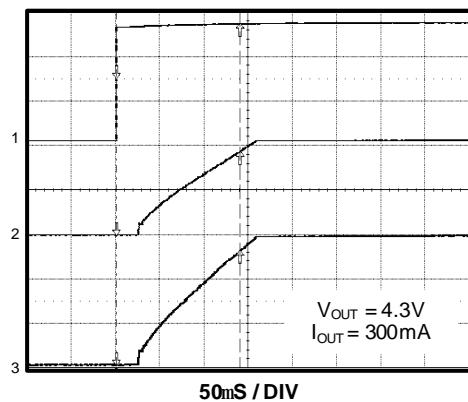
- 1) EN= 1V/div
- 2)  $V_{OUT}= 500mV/div$
- 3)  $I_{OUT}= 100mA/div$

**Chip Enable Transient Response**



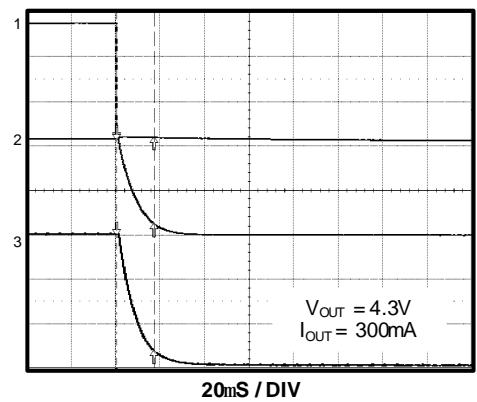
- 1) EN= 1V/div
- 2)  $V_{OUT}= 500mV/div$
- 3)  $I_{OUT}= 100mA/div$

**Chip Enable Transient Response**



- 1) EN= 2V/div
- 2)  $V_{OUT}= 2V/div$
- 3)  $I_{OUT}= 100mA/div$

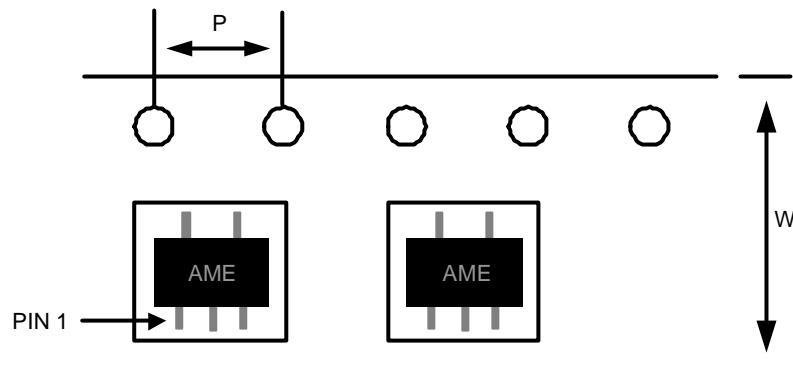
**Chip Enable Transient Response**



- 1) EN= 2V/div
- 2)  $V_{OUT}= 2V/div$
- 3)  $I_{OUT}= 100mA/div$

## ■ Tape and Reel Dimension

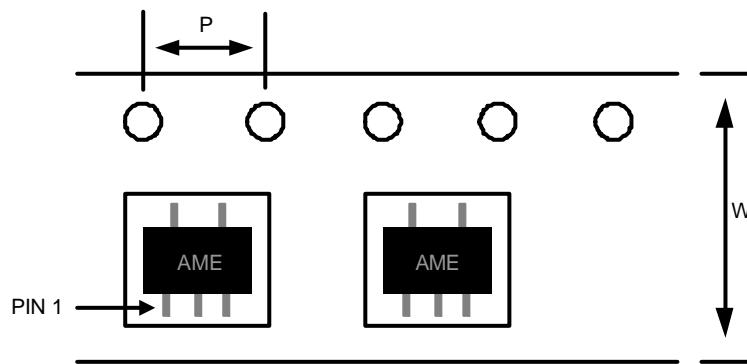
**SC-70-5**



**Carrier Tape, Number of Components Per Reel and Reel Size**

Package	Carrier Width (W)	Pitch (P)	Part Per Full Reel	Reel Size
SC-70-5	8.0±0.1 mm	4.0±0.1 mm	3000pcs	180±1 mm

**SOT-25**

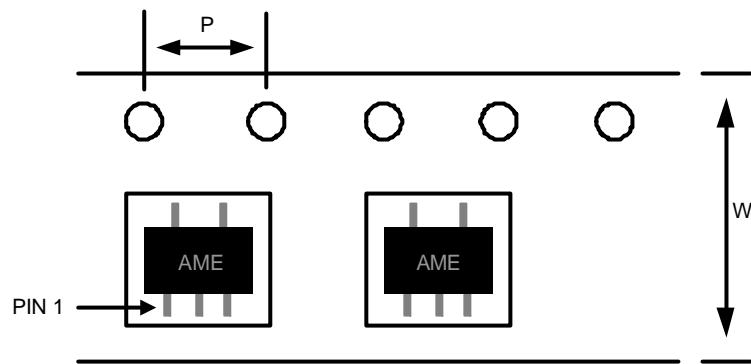


**Carrier Tape, Number of Components Per Reel and Reel Size**

Package	Carrier Width (W)	Pitch (P)	Part Per Full Reel	Reel Size
SOT-25	8.0±0.1 mm	4.0±0.1 mm	3000pcs	180±1 mm

## ■ Tape and Reel Dimension (Contd.)

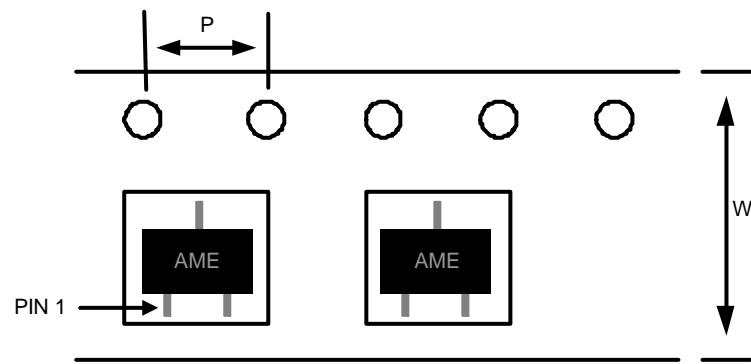
### TSOT-25A



**Carrier Tape, Number of Components Per Reel and Reel Size**

Package	Carrier Width (W)	Pitch (P)	Part Per Full Reel	Reel Size
TSOT-25A	$8.0 \pm 0.1$ mm	$4.0 \pm 0.1$ mm	3000pcs	$180 \pm 1$ mm

### SOT-23

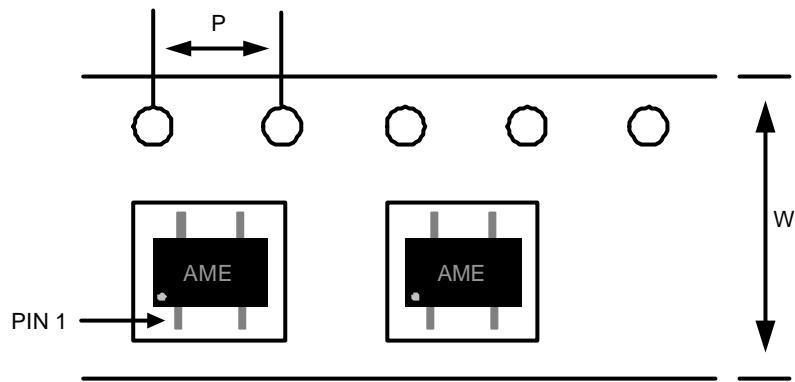


**Carrier Tape, Number of Components Per Reel and Reel Size**

Package	Carrier Width (W)	Pitch (P)	Part Per Full Reel	Reel Size
SOT-23	$8.0 \pm 0.1$ mm	$4.0 \pm 0.1$ mm	3000pcs	$180 \pm 1$ mm

## ■ Tape and Reel Dimension (Contd.)

**SC-70-4 (SC-82)**

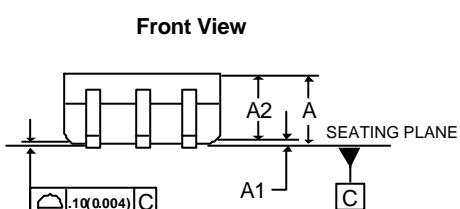
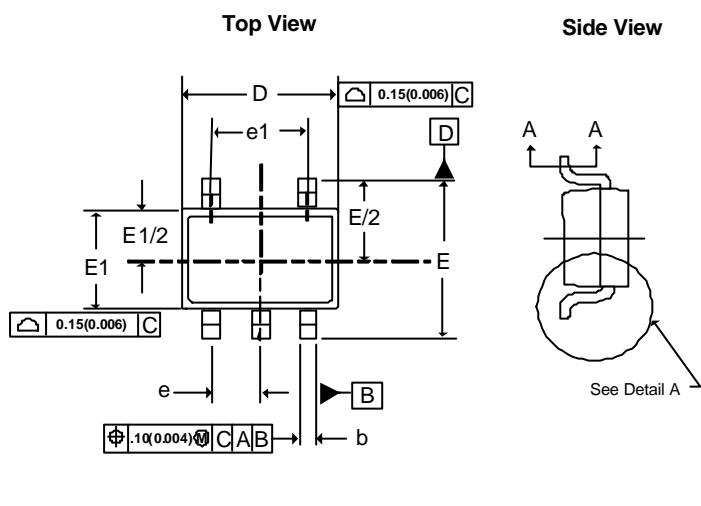


**Carrier Tape, Number of Components Per Reel and Reel Size**

Package	Carrier Width (W)	Pitch (P)	Part Per Full Reel	Reel Size
SC-70-4	$8.0 \pm 0.1$ mm	$4.0 \pm 0.1$ mm	3000pcs	$180 \pm 1$ mm

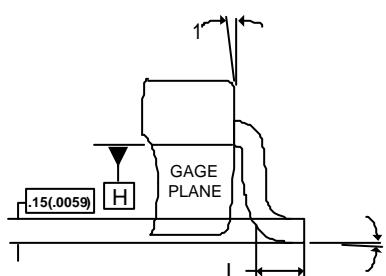
## ■ Package Dimension (Contd.)

**SC-70-5**

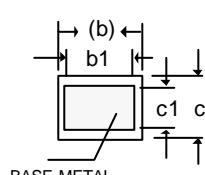


SYMBOLS	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
<b>A</b>	0.80	1.10	0.0315	0.0433
<b>A1</b>	0.00	0.10	0.0000	0.0039
<b>A2</b>	0.80	1.00	0.0315	0.0394
<b>b</b>	0.15	0.35	0.0059	0.0138
<b>b1</b>	0.15	0.25	0.0059	0.0098
<b>c</b>	0.08	0.25	0.0031	0.0098
<b>c1</b>	0.08	0.20	0.0031	0.0079
<b>D</b>	1.85	2.20	0.0728	0.0866
<b>E</b>	1.80	2.45	0.0709	0.0965
<b>E1</b>	1.10	1.40	0.0433	0.0551
<b>e</b>	0.65 BSC		0.0255 BSC	
<b>e1</b>	1.20	1.40	0.0472	0.0551
<b>L</b>	0.26	0.46	0.0102	0.0181
<b>q1</b>	$0^\circ$	$8^\circ$	$0^\circ$	$8^\circ$
<b>q</b>	$4^\circ$	$10^\circ$	$4^\circ$	$10^\circ$

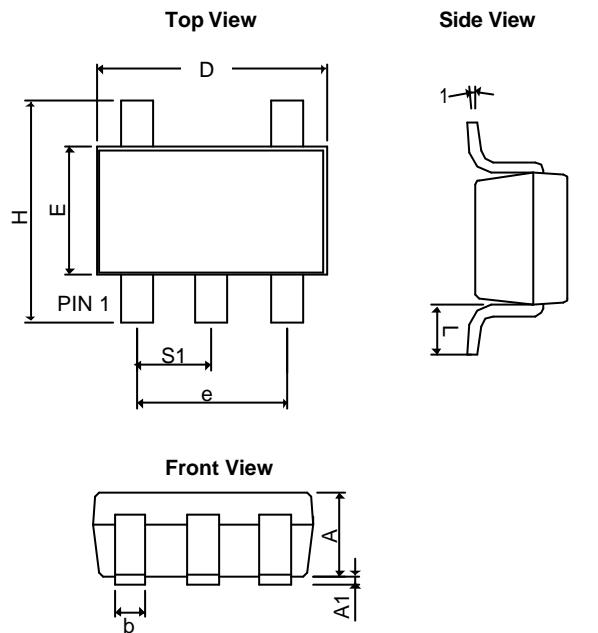
Detail A



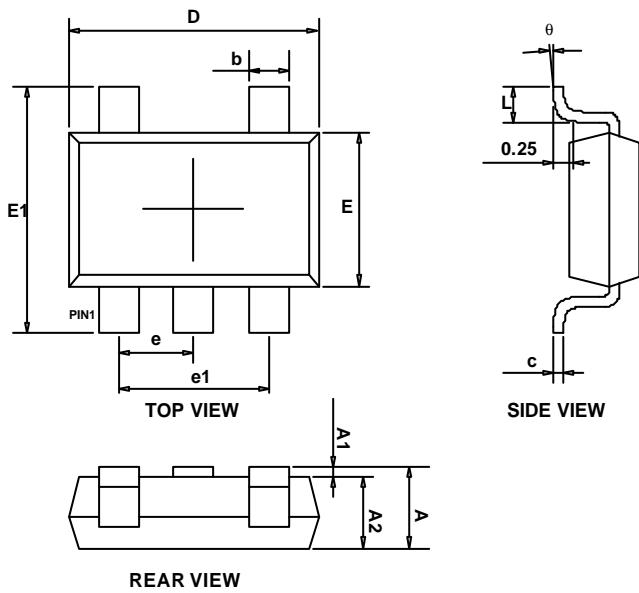
Section A-A



## ■ Package Dimension (Contd.)

**SOT-25**


SYMBOLS	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
<b>A</b>	0.90	1.30	0.0354	0.0512
<b>A<sub>1</sub></b>	0.00	0.15	0.0000	0.0059
<b>b</b>	0.30	0.55	0.0118	0.0217
<b>D</b>	2.70	3.10	0.1063	0.1220
<b>E</b>	1.40	1.80	0.0551	0.0709
<b>e</b>	1.90 BSC		0.0748 BSC	
<b>H</b>	2.60	3.00	0.1024	0.1181
<b>L</b>	0.37 BSC		0.0146 BSC	
<b>q<sub>1</sub></b>	0°	10°	0°	10°
<b>s<sub>1</sub></b>	0.95 BSC		0.0374 BSC	

**TSOT-25A**


SYMBOLS	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
<b>A</b>	0.700	0.900	0.028	0.035
<b>A<sub>1</sub></b>	0.000	0.100	0.000	0.004
<b>A<sub>2</sub></b>	0.700	0.800	0.028	0.031
<b>b</b>	0.350	0.500	0.014	0.020
<b>c</b>	0.080	0.200	0.003	0.008
<b>D</b>	2.820	3.020	0.111	0.119
<b>E</b>	1.600	1.700	0.063	0.067
<b>E<sub>1</sub></b>	2.650	2.950	0.104	0.116
<b>e</b>	0.95 BSC		0.037 BSC	
<b>e<sub>1</sub></b>	1.90 BSC		0.075 BSC	
<b>L</b>	0.300	0.600	0.012	0.024
<b>q</b>	0°	8°	0°	8°



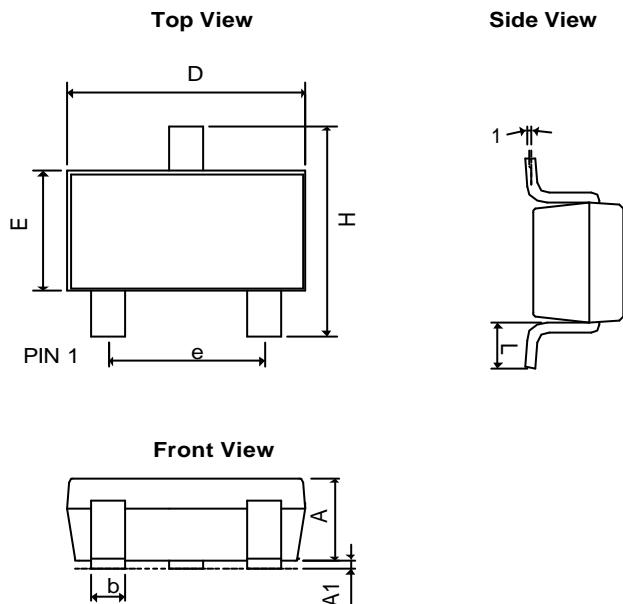
AME

AME8853A

**High PSRR, Low Noise, 300mA  
CMOS Regulator**

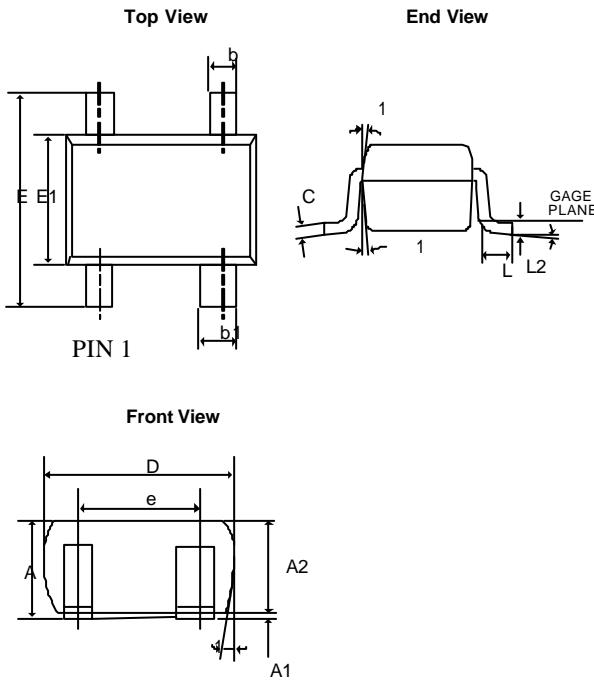
## ■ Package Dimension (Contd.)

SOT-23

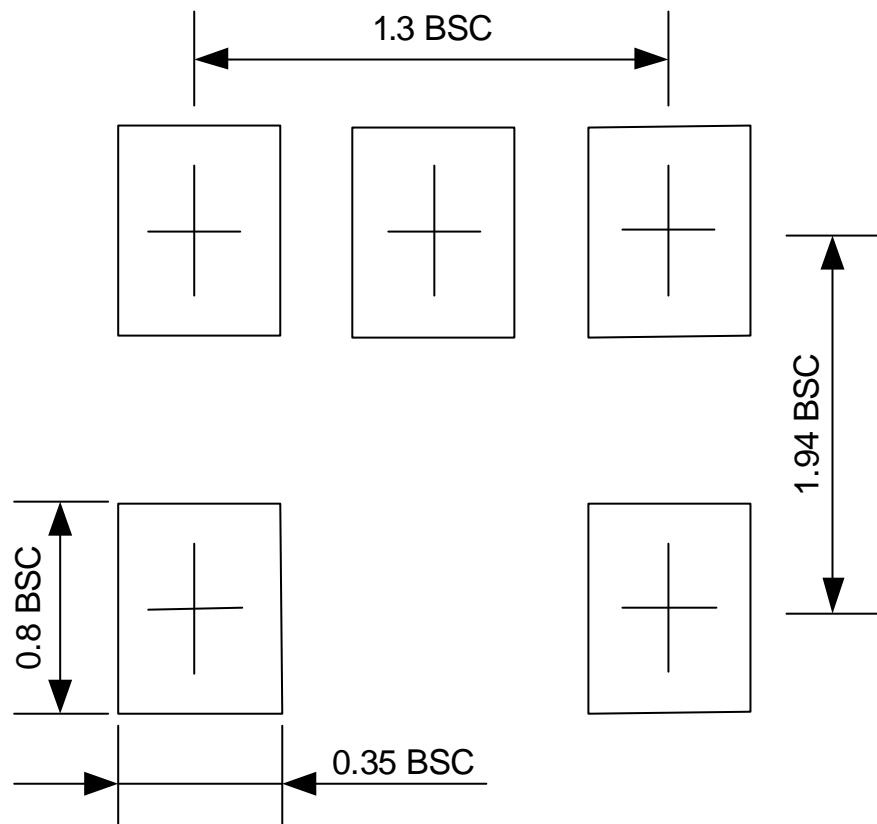


SYMBOLS	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	0.90	1.40	0.0354	0.0551
A <sub>1</sub>	0.00	0.15	0.0000	0.0059
b	0.30	0.50	0.0118	0.0197
D	2.70	3.10	0.1063	0.1220
E	1.40	1.80	0.0551	0.0709
e	1.90 BSC		0.0748 BSC	
H	2.40	3.00	0.0945	0.1181
L	0.35BSC		0.0138 BSC	
q1	0°	10°	0°	10°

## SC-70-4 (SC-82)



SYMBOLS	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.250	0.400	0.010	0.016
b1	0.350	0.500	0.014	0.020
c	0.080	0.150	0.003	0.006
d	0.050 TYP		0.002 TYP	
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.450	0.085	0.096
e	0.650 TYP		0.026 TYP	
e1	1.200	1.400	0.047	0.055
L	0.525 REF		0.021 REF	
L1	0.260	0.460	0.010	0.018
	0°	8°	0°	8°

**■ Lead Pattern****SC-70-5****Note:**

1. Lead pattern unit description:

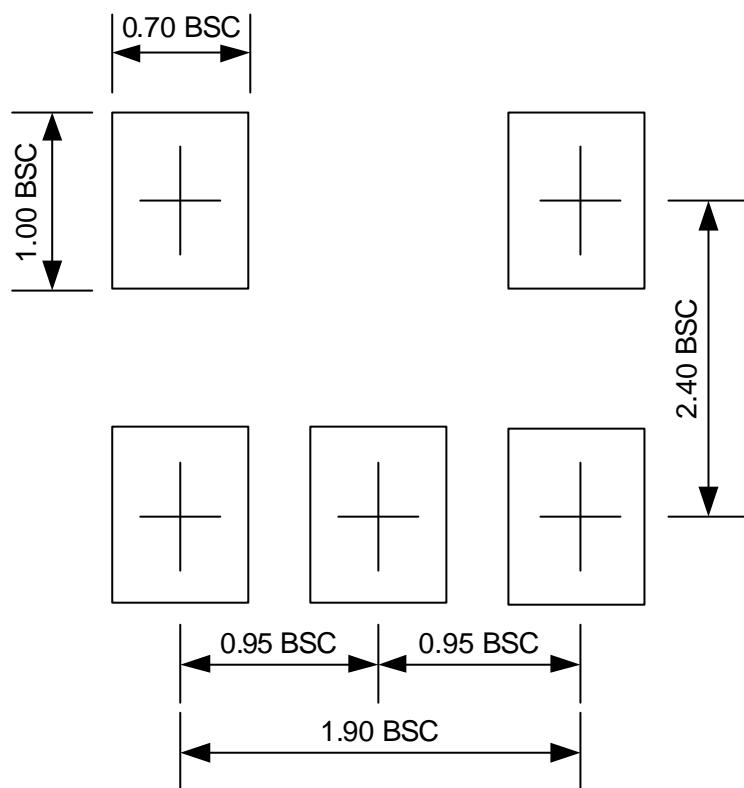
BSC: Basic. Represents theoretical exact dimension or dimension target.

2. Dimensions in Millimeters.

3. General tolerance  $\pm 0.05\text{mm}$  unless otherwise specified.

**■ Lead Pattern (Contd.)**

SOT-25

**Note:**

1. Lead pattern unit description:

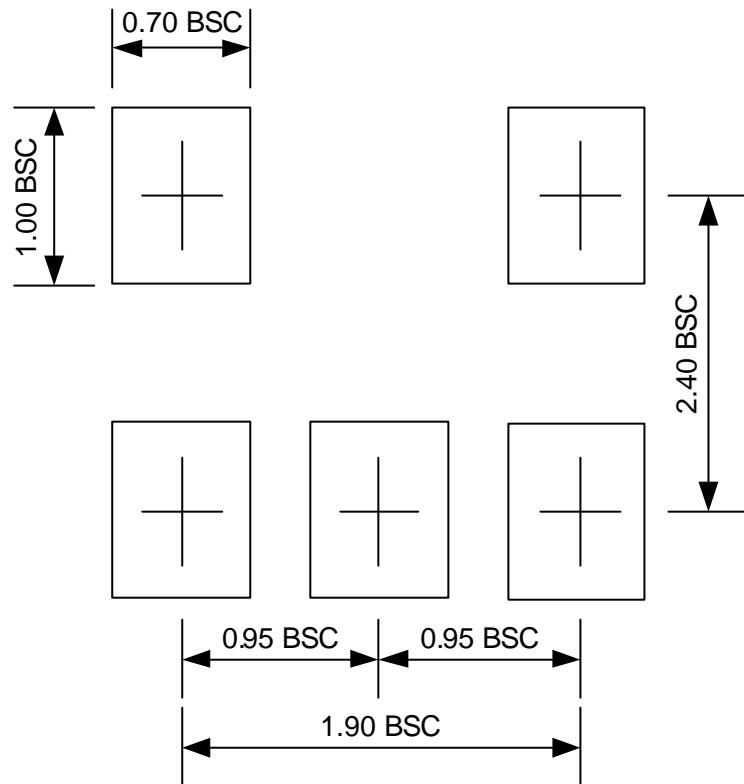
BSC: Basic. Represents theoretical exact dimension or dimension target.

2. Dimensions in Millimeters.

3. General tolerance  $\pm 0.05\text{mm}$  unless otherwise specified.

## ■ Lead Pattern (Contd.)

TSOT-25A



Note:

1. Lead pattern unit description:

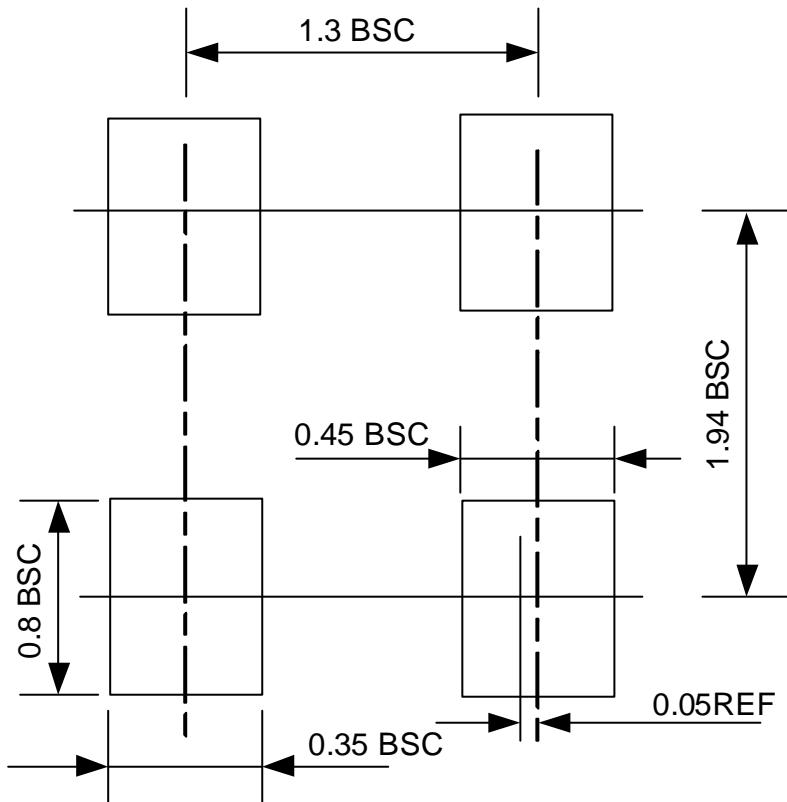
BSC: Basic. Represents theoretical exact dimension or dimension target.

2. Dimensions in Millimeters.

3. General tolerance  $\pm 0.05\text{mm}$  unless otherwise specified.

**■ Lead Pattern (Contd.)**

SC-70-4/SC-82

**Note:**

1. Lead pattern unit description:

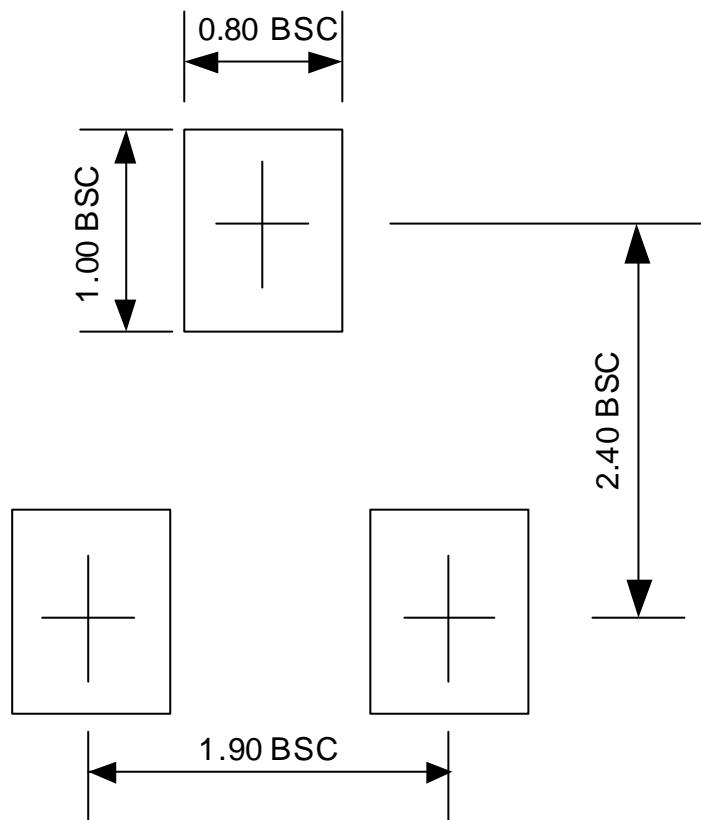
BSC: Basic. Represents theoretical exact dimension or dimension target.

2. Dimensions in Millimeters.

3. General tolerance  $\pm 0.05\text{mm}$  unless otherwise specified.

## ■ Lead Pattern (Contd.)

SOT-23



Note:

1. Lead pattern unit description:

BSC: Basic. Represents theoretical exact dimension or dimension target.

2. Dimensions in Millimeters.

3. General tolerance  $\pm 0.05\text{mm}$  unless otherwise specified.



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