

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

BAS316

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Surface Mount Package Ideally Suited for Automatic Insertion
- High switching speed: max. 4ns
- Continuous reverse voltage: max. 100V
- Repetitive peak reverse voltage: max. 100V
- Repetitive peak forward current: max. 500mA

Mechanical Data

- Marking: A6 •
- Polarity: Indicated by Cathode Band

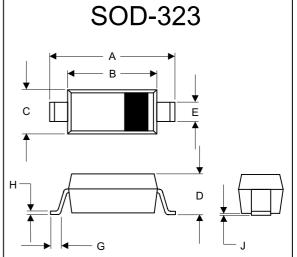
Maximum Ratings @ 25°C Unless Otherwise Specified

Parameter	Symbol	Limits	Unit
DC Reverse Voltage	V _R	100	V
Forward Current	I _F	250	mA
Total Device Dissipation	P _D	400	mW
Junction and Storage temperature	T _j , P _{stg}	-65~+150	°C
Non-repetitive peak forward current t=1us t=1ms t=1s	I _{FSM}	4 1 0.5	A

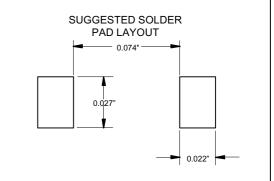
Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditons	MIN	MAX	UNIT	
Reverse breakdown voltage	V_{BR}	I _R =100uA	100		V	
		I _F =1mA		715		
Forward voltage	V _F	I _F =10mA		855	mV	
		I _F =50mA		1000		
		I _F =150mA		1250		
Reverse leakage current	I _R	V _R =25V		0.03 uA		
		V _R =75V		1		
Reverse recovery time	T _{rr}	$I_F = I_R = 10 \text{mAdc},$ $R_L = 100 \Omega$		4	ns	
Diode capacitance	C _D	V _R =0V,f=1MHz		1.5	pF	





DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
Α	.090	.107	2.30	2.70	
В	.063	.071	1.60	1.80	
С	.045	.053	1.15	1.35	
D	.031	.045	0.80	1.15	
Е	.010	.016	0.25	0.40	
G	.004	.018	0.10	0.45	
Н	.004	.010	0.10	0.25	
J		.006		0.15	





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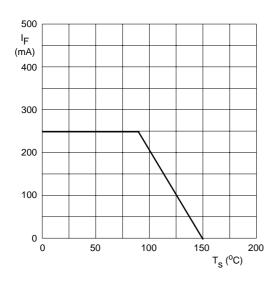
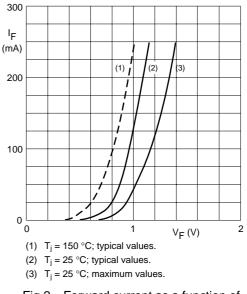
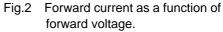


Fig.1 Maximum permissible continuous forward current as a function of soldering point temperature.





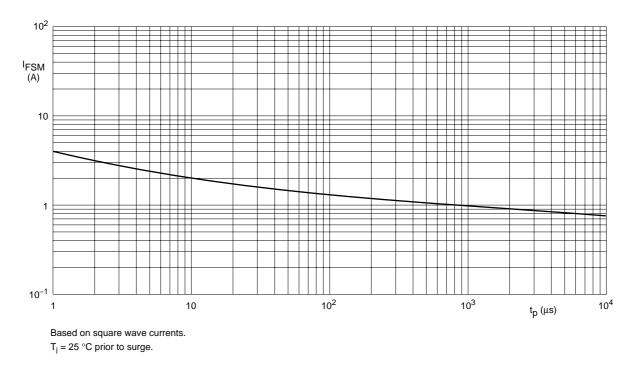


Fig.3 Maximum permissible non-repetitive peak forward current as a function of pulse duration.



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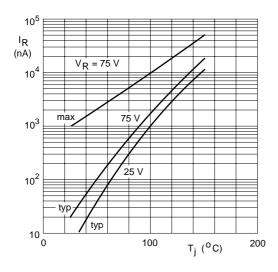


Fig.4 Reverse current as a function of junction temperature.

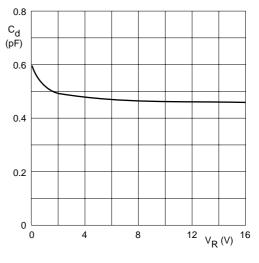




Fig.5 Diode capacitance as a function of reverse voltage; typical values.



Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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