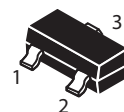
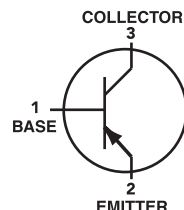


PNP General Purpose Transistors

(Pb) Lead(Pb)-Free



SOT-23

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Collector-Emitter Voltage	V_{CEO}	25	Vdc
Collector-Base Voltage	V_{CBO}	40	Vdc
Emitter-Base Voltage	V_{EBO}	5.0	Vdc
Collector Current-Continuous	I_C	800	mAdc

THERMAL CHARACTERISTICS

Characteristics	Symbol	Max	Unit
Total Device Dissipation FR-5 Board (1) TA=25°C	P_D	225	mW
Derate above 25°C		1.8	mW/°C
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	556	°C/W
Total Device Dissipation Alumina Substrate, (2) TA=25°C	P_D	300	mW
Derate above 25°C		2.4	mW/°C
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	417	°C/W
Junction and Storage, Temperature	T_J, T_{stg}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS

Characteristics	Symbol	Min	Max	Unit
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OFF CHARACTERISTICS

Collector-Emitter Breakdown Voltage ($I_C=0.1\text{ mAdc}, I_E=0$)	$V_{(BR)CEO}$	25	-	Vdc
Collector-Base Breakdown Voltage ($I_C=100\text{ }\mu\text{Adc}, I_E=0$)	$V_{(BR)CBO}$	40	-	Vdc
Emitter-Base Breakdown Voltage ($I_E=100\text{ }\mu\text{Adc}, I_C=0$)	$V_{(BR)EBO}$	5.0	-	Vdc
Collector Cutoff Current ($V_{CB}=35\text{ Vdc}, I_E=0$)	I_{CBO}	-	0.15	μAdc
Emitter Cutoff Current ($V_{EB}=4.0\text{ Vdc}, I_C=0$)	I_{EBO}	-	0.15	μAdc

1.FR-5=1.0 x 0.75 x 0.062 in

2.Alumina=0.4 x 0.3 x 0.024 in. 99.5% alumina

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ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$ unless otherwise noted) (Continued)

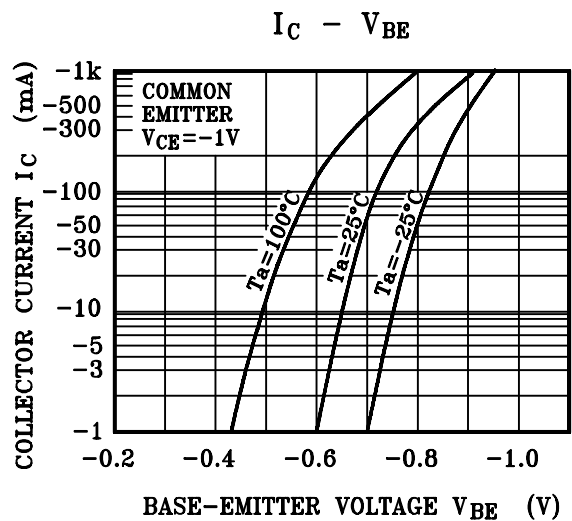
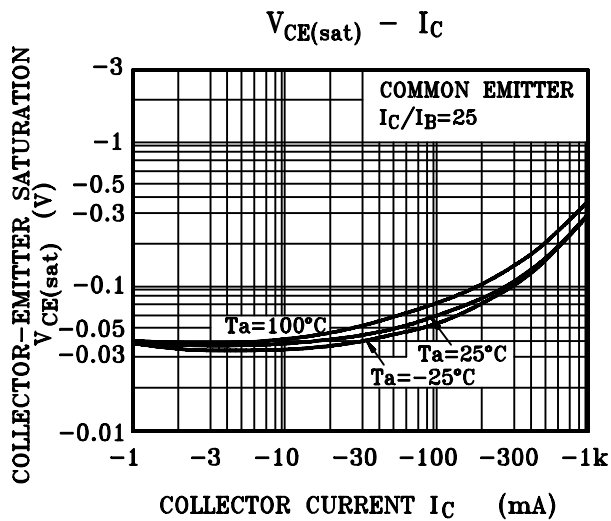
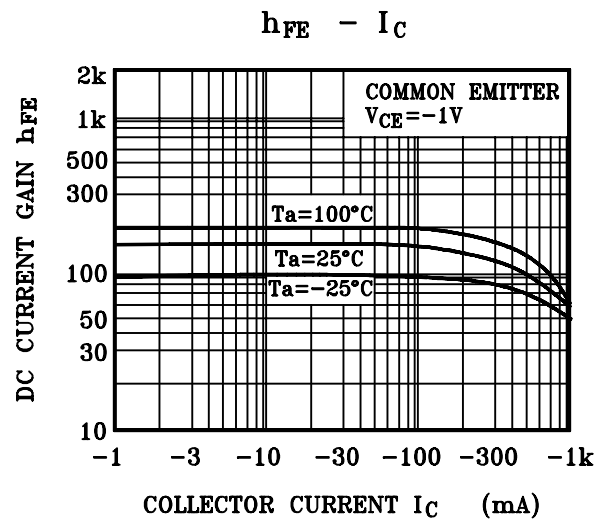
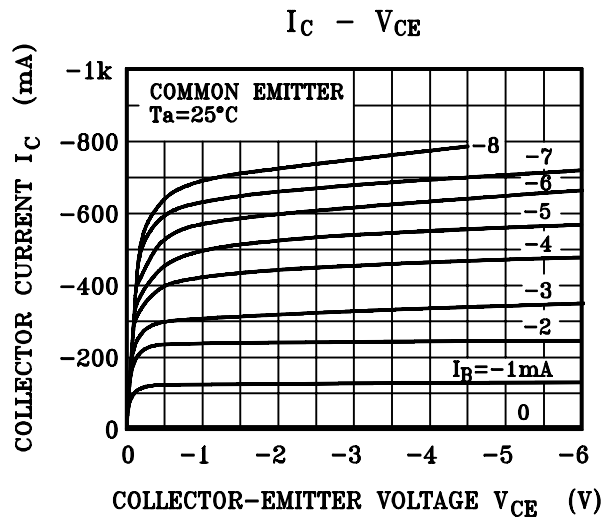
Characteristics	Symbol	Min	Max	Unit
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ON CHARACTERISTICS

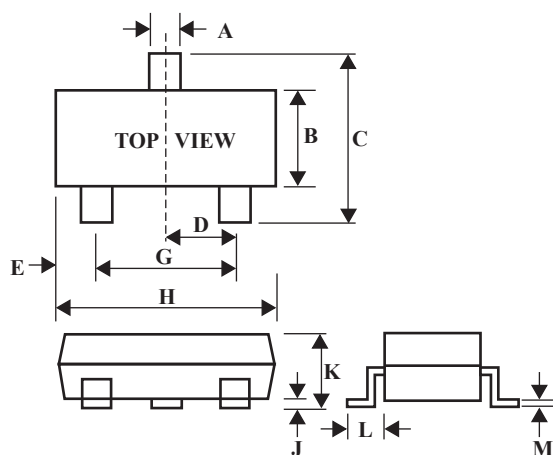
DC Current Gain ($I_C=100\text{ mAdc}$, $V_{CE}=1.0\text{ Vdc}$)	$h_{FE}^{(1)}$	100	600	-
Collector-Emitter Saturation Voltage ($I_C=800\text{ mAdc}$, $I_B=80\text{ mAdc}$)	$V_{CE(sat)}$	-	0.5	Vdc

CLASSIFICATION OF $h_{FE}(1)$

Rank	P	Q	R	S
Range	100-200	150-300	200-400	300-600
Marking	85P	1YD	1YF	1YH



SOT-23 Outline Dimension



SOT-23		
Dim	Min	Max
A	0.35	0.51
B	1.19	1.40
C	2.10	3.00
D	0.85	1.05
E	0.46	1.00
G	1.70	2.10
H	2.70	3.10
J	0.01	0.13
K	0.89	1.10
L	0.30	0.61
M	0.076	0.25