

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings @ 25°C Unless Otherwise Specified

- Operating Junction Temperature Range: -55°C to +150°C •
- Storage Temperature Range: -55°C to +150°C

1.BASE

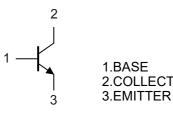
2.COLLECTOR

Thermal Resistance: 250°C/W Junction to Ambient

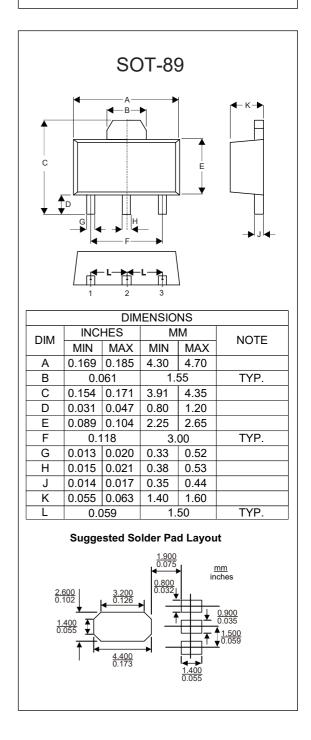
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	160	V
Collector-Emitter Voltage	V _{CEO}	160	V
Emitter-Base Voltage	V _{EBO}	6	V
Continuous Collector Current	I _C	1	Α
Power Dissipation	P _D	0.5	W

Marking: 2383

Internal Structure



NPN Silicon Plastic-Encapsulate Transistor





Electrical Characteristics @ $T_A=25^{\circ}C$ Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	160			V	I _C =100μA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	160			V	I _C =10mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	6			V	I _E =10μΑ, I _C =0
Collector-Base Cutoff Current	I _{CBO}			1	μA	V _{CB} =150V, I _E =0
Emitter-Base Cutoff Current	I _{EBO}			1	μA	V_{EB} =6V, I _C =0
DC Current Gain	h _{FE}	100		320		V _{CE} =5V, I _C =200mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			1.0	V	I _C =500mA, I _B =50mA
Base-Emitter Voltage	V _{BE}		0.45	0.75	V	V _{CE} =5V, I _C =5mA
Transition Frequency	f _T	20			MHz	V_{CE} =5V, I _C =200mA

Classification of h_{FE}

Rank	0	Y
Range	100-200	160-320



Curve Characteristics

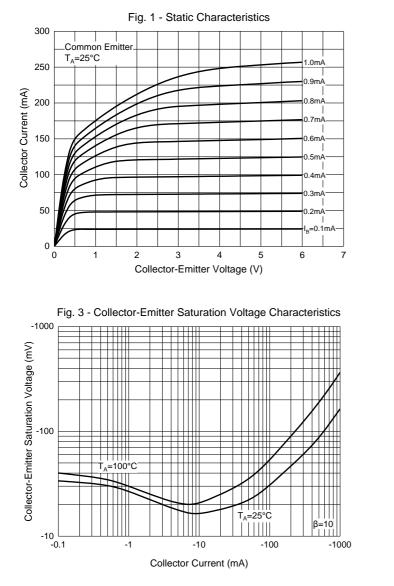
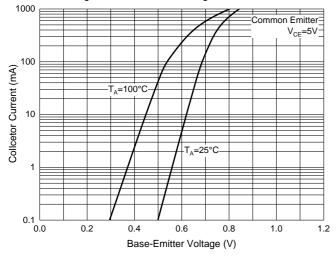


Fig. 5 - Base-Emitter Voltage Characteristics



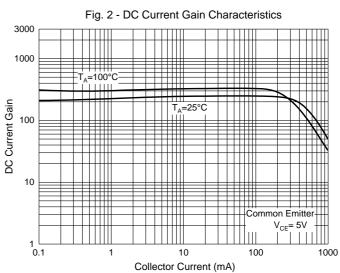


Fig. 4 - Base-Emitter Saturation Voltage Characteristics

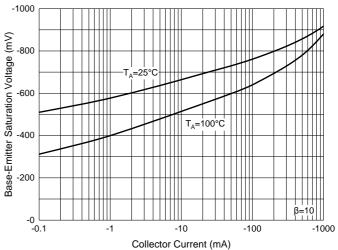
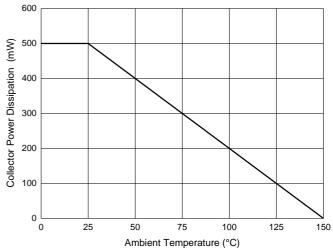


Fig. 6 - Collector Power Derating Curve







Device		Packing	
Part Number-TP		Tape&Reel: 1Kpcs/Reel	

Note : Adding "-HF" Suffix for Halogen Free, eg. Part Number-TP-HF

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