

Features

- · High DC Current Gain
- Halogen Free. "Green" Device (Note 1)
- · 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

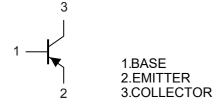
Storage Temperature Range: -55°C to +150°C

Thermal Resistance: 625°C/W Junction to Ambient

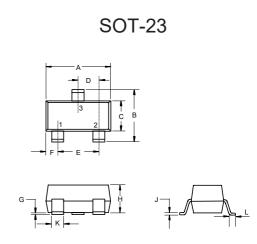
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	-60	V
Collector-Emitter Voltage	V_{CEO}	-50	V
Emitter-Base Voltage	V _{EBO}	-5	V
Continuous Collector Current	I _C	-100	mA
Power Dissipation	P _D	200	mW

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure

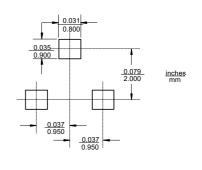


PNP Silicon Epitaxial Transistors



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIL	
Α	0.110	0.120	2.80	3.04		
В	0.083	0.104	2.10	2.64		
С	0.047	0.055	1.20	1.40		
D	0.034	0.041	0.85	1.05		
E	0.067	0.083	1.70	2.10		
F	0.018	0.024	0.45	0.60		
G	0.0004	0.006	0.01	0.15		
Н	0.035	0.043	0.90	1.10		
J	0.003	0.007	0.08	0.18		
K	0.012	0.020	0.30	0.51		
L	0.007	0.020	0.20	0.50		

Suggested Solder Pad Layout





Electrical Characteristics @ T_A =25°C Unless Otherwise Specified

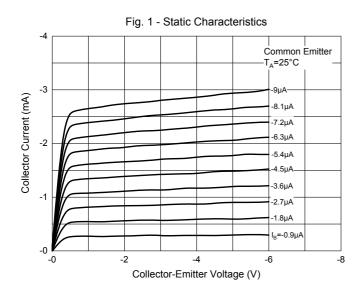
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Cutoff Current	I _{CBO}			-0.1	μA	V_{CB} =-60V, I_E =0
Emitter-Base Cutoff Current	I _{EBO}			-0.1	μA	V_{EB} =-5V, I_{C} =0
DC Current Gain	h _{FE}	90		600		V _{CE} =-6V, I _C =-1mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			-0.3	V	I _C =-100mA, I _B =-10mA
Base-Emitter Voltage	V_{BE}			-0.68	V	V _{CE} =-6V, I _C =-10mA
Transition Frequency	f _T	180			MHz	V_{CE} =-6 V , I_{C} =-10 m A

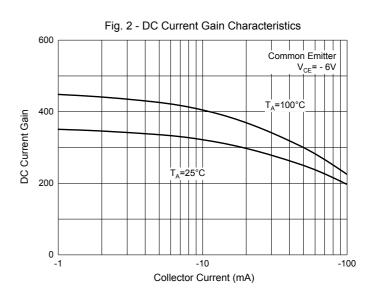
Classification of \mathbf{h}_{FE}

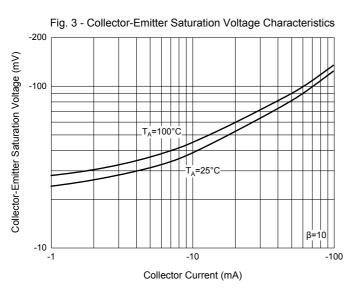
	Rank	M4	M5	M6	M7
	Range	90-180	135-270	200-400	300-600
Ī	Marking	M4	M5	M6	M7

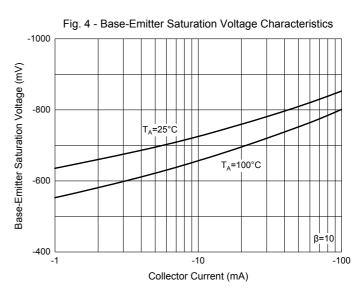


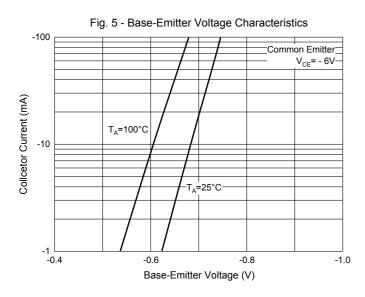
Curve Characteristics

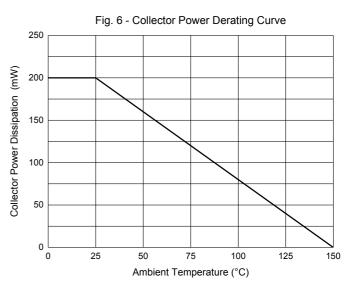














Ordering Information

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

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