

Features

- 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

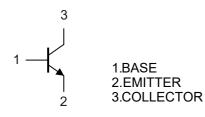
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 625°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	50	V
Collector-Emitter Voltage	V _{CEO}	45	V
Emitter-Base Voltage	V _{EBO}	5	V
Continuous Collector Current	I _C	100	mA
Power Dissipation	P _D	200	mW

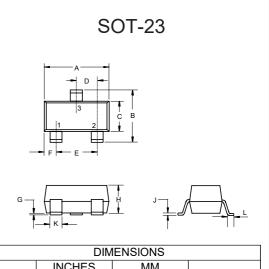
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Marking: J6

Internal Structure

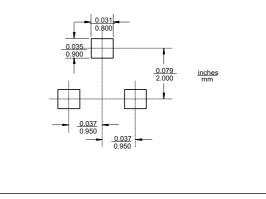


NPN Silicon Plastic-Encapsulate Transistor



	DIMENSIONS					
DIM	INCHES		M	М	NOTE	
Divi	MIN	MAX	MIN	MAX	NOTE	
A	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 @ $T_A \!\!=\! 25^\circ C$ Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Мах	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	50			V	I _C =100μA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	45			V	I _C =100μA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	5			V	I _E =100μA, I _C =0
Collector-Base Cutoff Current	I _{CBO}			0.1	μA	V _{CB} =50V, I _E =0
Collector Cutoff Current	I _{CEO}			0.1	μA	V _{CE} =35V, I _B =0
Emitter-Base Cutoff Current	I _{EBO}			0.1	μA	$V_{EB}=3V, I_{C}=0$
DC Current Gain	h _{FE(1)}	200		1000		V _{CE} =5V, I _C =1mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.3	V	I _C =100mA, I _B =5mA
Base-Emitter Saturation Voltage	V _{BE(sat)}			1.0	V	I _C =100mA, I _B =5mA
Transition Frequency	f _T	150			MHz	V _{CE} =5V, I _C =10mA, f=30MHz

Classification of h_{FE(1)}

Rank	L	Н	
Range	200-450	450-1000	

V_{CE}= 5V

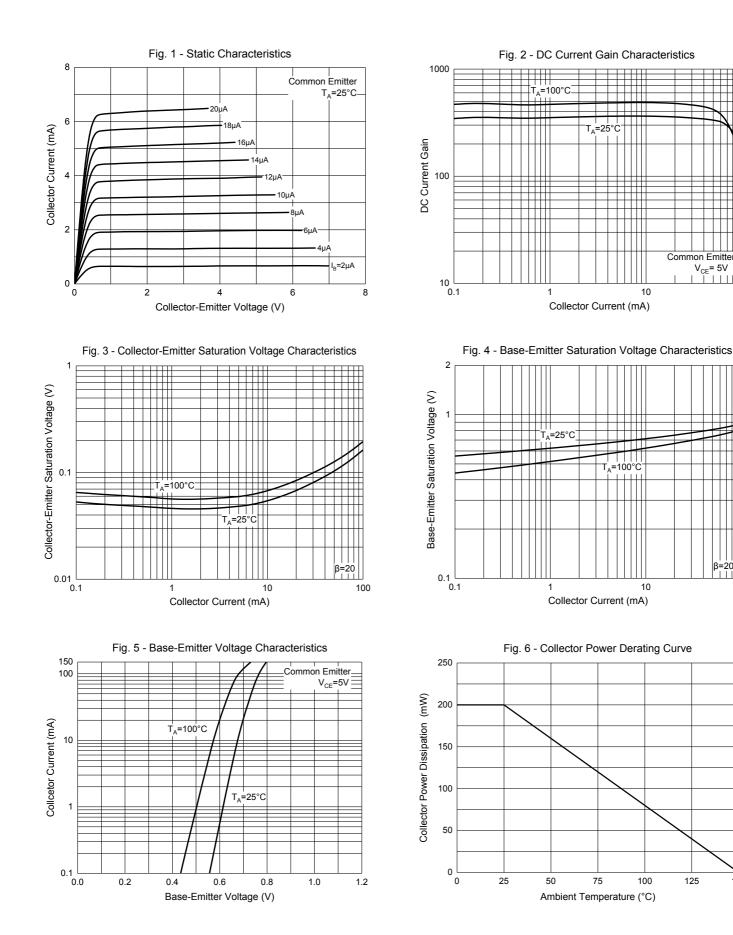
β=20

100

100



Curve Characteristics



150

125





Ordering Information

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

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