

Features

- Halogen Free. "Green" Device (Note 1)
- · AEC-Q101 Qualified
- 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)

NPN Plastic Encapsulate Transistor

Maximum Ratings

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

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

• Thermal Resistance: 417°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	180	V
Collector-Emitter Voltage	V _{CEO}	160	V
Emitter-Base Voltage	V _{EBO}	6	V
Collector Current	Ic	600	mA
Collector Power Dissipation	Pc	300	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.

SOT-23

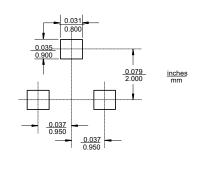
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOIL
Α	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
E	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.014	0.020	0.35	0.51	
L	0.007	0.020	0.20	0.50	

Internal Structure



Marking: G1

Suggested Solder Pad Layout



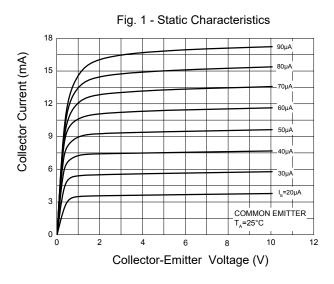


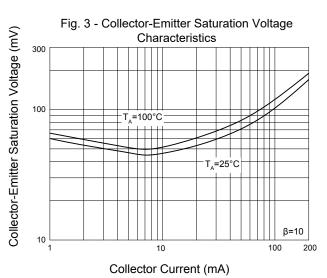
Electrical Characteristics @ 25°C Unless Otherwise Specified

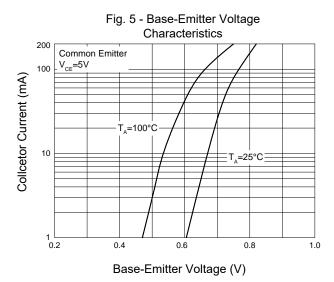
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	180			V	I _C =100μA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	160			V	I _C =1mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	6			V	I _E =10μA, I _C =0
Collector Cutoff Current	I _{CBO}			50	nA	V _{CB} =120V, I _E =0
Emitter-Base Cutoff Current	I _{EBO}			50	nA	V_{EB} =4V, I_{C} =0
	h _{FE1}	80				V _{CE} =5V, I _C =1.0mA
DC Current Gain	h _{FE2}	100		300		V _{CE} =5V, I _C =10mA
	h _{FE3}	50				V _{CE} =5V, I _C =50mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.2	V	I _C =50mA, I _B =5mA
Base-Emitter Saturation Voltage	V _{BE(sat)}			1.0	V	I _C =50mA, I _B =5mA
Transition Frequency	f _T	100		300	MHz	V _{CE} =5V, I _C =10mA, f=30MHz

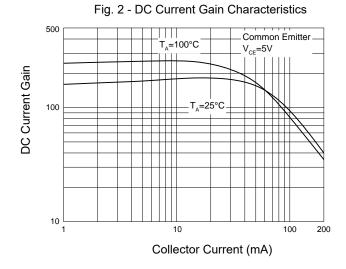


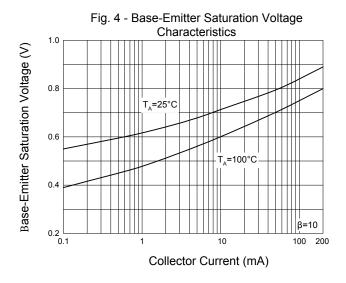
Curve Characteristics

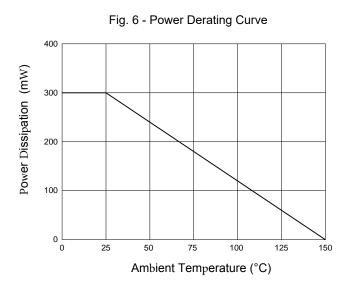












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Ordering Information

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

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