

Features

- · AEC-Q101 Qualified
- 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: 556°C/W Junction to Ambient(Note 2)
- Thermal Resistance: 357°C/W Junction to Ambient^(Note 3)

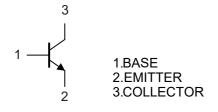
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	300	V
Collector-Emitter Voltage	V _{CEO}	300	V
Emitter-Base Voltage	V _{EBO}	5	V
Continuous Collector Current	I _C	500	mA
Power Dissipation (Note 2)	P _D	225	mW
Power Dissipation (Note 3)	P _D	350	mW

Note:

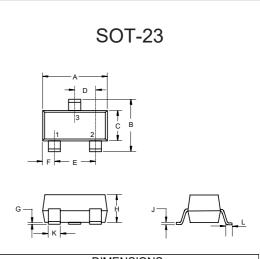
- 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 2. Device Mounted on FR-5 Board.
- 3. Device with Alumina Substrate.

Marking: 1D

Internal Structure

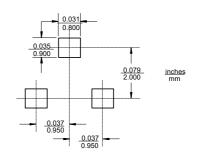


NPN Silicon High Voltage Transistor



DIMENSIONS					
DIM INCH		HES	M	М	NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
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	
Е	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





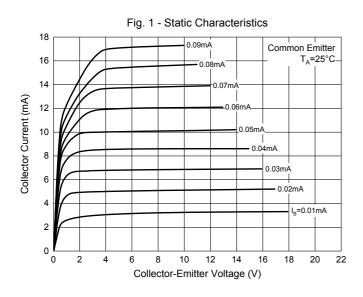
Electrical Characteristics @ T_A =25°C Unless Otherwise Specified

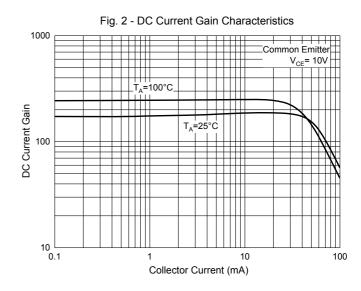
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	300			V	I _C =100μA, I _E =0
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	300			V	I _C =1mA, I _B =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	5			V	I _E =100μA, I _C =0
Collector Cutoff Current	I _{CBO}			0.5	μA	V _{CB} =200V, I _E =0
Emitter Cutoff Current	I _{EBO}			0.5	μA	V_{EB} =6V, I_C =0
	h _{FE(1)}	25				V _{CE} =10V, I _C =1mA
DC Current Gain*	h _{FE(2)}	40		300		V _{CE} =10V, I _C =10mA
	h _{FE(3)}	40				V _{CE} =10V, I _C =30mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.5	V	I _C =20mA, I _B =2mA
Base-Emitter Saturation Voltage	V _{BE(sat)}			1.0	V	I _C =20mA, I _B =2mA
Transition Frequency	f _T	50			MHz	V _{CE} =20V, I _C =10mA, f=30MHz

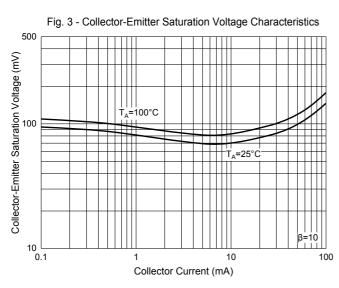
^{*.}Pulse test: Pulse Width \leq 300 μ s,Duty Cycle \leq 2.0%.

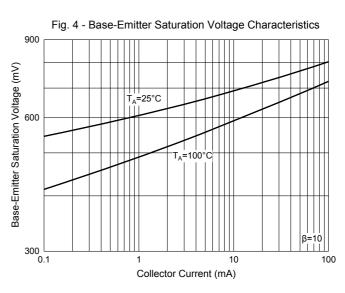


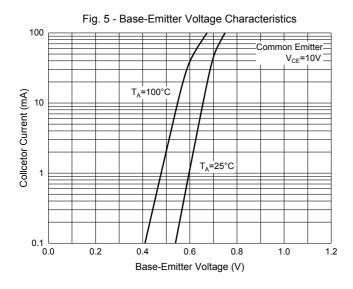
Curve Characteristics

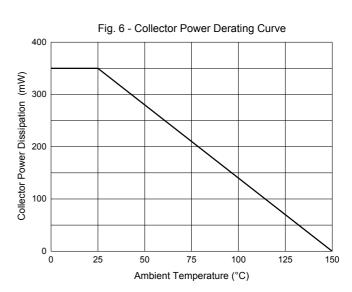














Ordering Information

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

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