

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

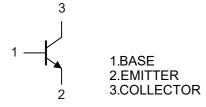
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	160	V
Collector-Emitter Voltage	V _{CEO}	140	V
Emitter-Base Voltage	V _{EBO}	6	V
Collector Current	Ic	600	mA
Power Dissipation	P _D	225	mW

Thermal characteristics

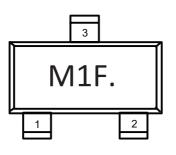
Parameter	Symbol	Rating	Unit
Junction Temperature Range	T _J	-55~+150	°C
Storage Temperature Range	T _{stg}	-55~+150	°C
Thermal Resistance from Junction to Ambient	Rth _(J-A)	556	°C/W

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

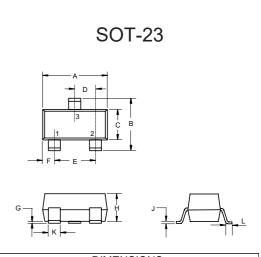
Internal Structure



Marking Code

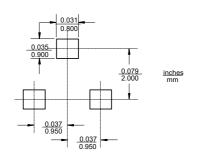


NPN Plastic Encapsulate Transistor



DIMENSIONS						
DIM	INCHES		MM		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		
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





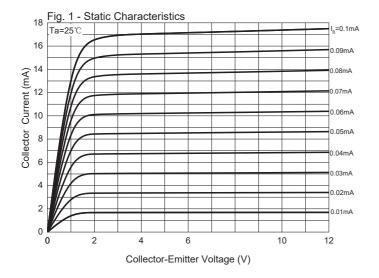
Electrical Characteristics @ T_A =25°C Unless Otherwise Specified

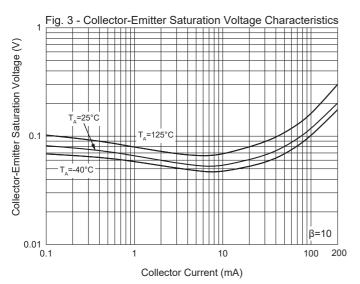
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	160			V	I _C =100μA, I _E =0
Collector-Emitter Breakdown Voltage*	$V_{(BR)CEO}$	140			V	I _C =1mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	6			V	I _E =10μA, I _C =0
Collector Cutoff Current	I _{CBO}			0.1	μA	V _{CB} =100V, I _E =0
Emitter Cutoff Current	I _{EBO}			50	nA	V_{EB} =4V, I_C =0
DC Current Gain*	h _{FE(1)}	60				V_{CE} =5V, I_{C} =1mA
	h _{FE(2)}	60		250		V _{CE} =5V, I _C =10mA
	h _{FE(3)}	20				V _{CE} =5V, I _C =50mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.15	V	I _C =10mA, I _B =1mA
				0.25	V	I _C =50mA, I _B =5mA
Base-Emitter Saturation Voltage	V _{BE(sat)}			1.0	V	I _C =10mA, I _B =1mA
				1.2	V	I _C =50mA, I _B =5mA

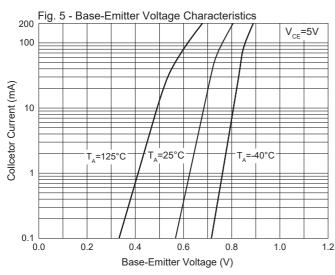
^{*.}Pulse test: Pulse Width≤300µs,Duty Cycle≤2.0%.

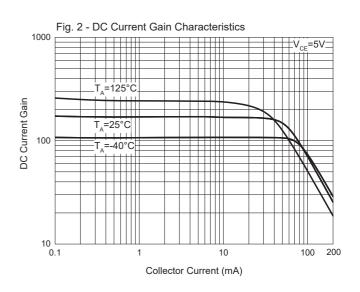


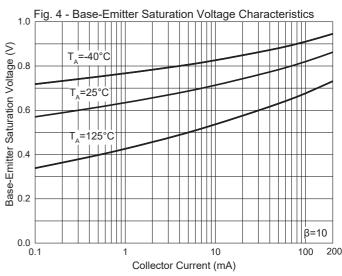
Curve Characteristics

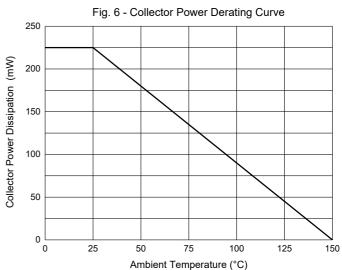














Ordering Information

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

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