

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)

PNP General Purpose Amplifier Transistors

Maximum Ratings @ 25°C Unless Otherwise Specified

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	-80	V
Collector-Emitter Voltage	V _{CEO}	-80	V
Emitter-Base Voltage	V _{EBO}	-4	V
Collector Current	Ic	-500	mA
Power Dissipation	P_{D}	300	mW

Thermal characteristics

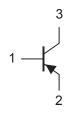
Parameter	Symbol	Rating	Unit
Operating Junction Temperature Range	T _{OPR}	-55~+150	°C
Storage Temperature Range	T _{STR}	-55~+150	°C
Thermal Resistance from Junction to Ambient	Rth _(j-a)	417	°C/W

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

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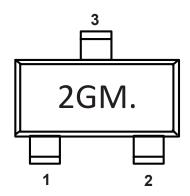
DIMENSIONS					
DIM		М	М	NOTE	
DIIVI	MIN	MAX	MIN	MAX	INOIL
Α	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
Е	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.012	0.020	0.30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

Internal Structure

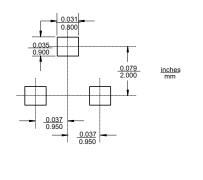


1.BASE 2.EMITTER 3.COLLECTOR

Device Marking



Suggested Solder Pad Layout



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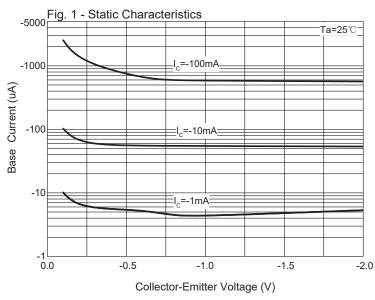


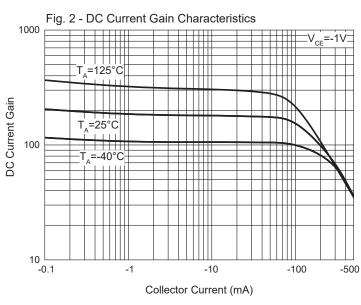
Electrical Characteristics @ T_A =25°C Unless Otherwise Specified

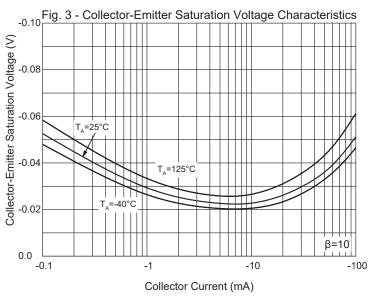
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-80			V	I _C =-100μA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	-80			V	I _C =-1mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	-4			V	I _E =-100μA, I _C =0
Collector-Base Cutoff Current	I _{CBO}			-0.1	μA	V _{CB} =-80V, I _E =0
Collector-Emitter Cutoff Current	I _{CES}			-0.1	μA	V _{CE} =-60V, I _B =0
Emitter-Base Cutoff Current	I _{EBO}			-0.1	μA	V_{EB} =-3V, I_C =0
DC Current Gain	h _{FE(1)}	100				V _{CE} =-1V, I _C =-10mA
DC Current Gain	h _{FE(2)}	100				V _{CE} =-1V, I _C =-100mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			-0.25	V	I _C =-100mA, I _B =-10mA
Base-Emitter Saturation Voltage	V _{BE(sat)}			-1.2	V	I _C =-100mA, I _B =-10mA
Transition Frequency	f _T	100			MHz	V _{CE} =-2V, I _C =-10mA, f=100MHz

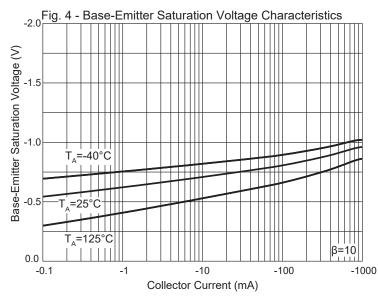


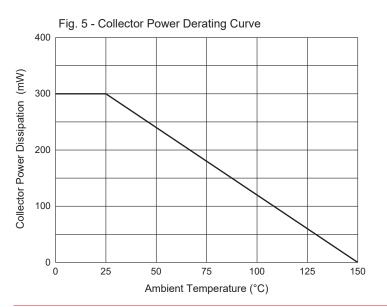
Curve Characteristics













Ordering Information

Device	Packing		
MMBTA56HE3-TP	Tape&Reel: 3Kpcs/Reel		

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