

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: 556°C/W Junction to Ambient

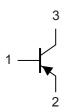
Parameter		Symbol	Rating	Unit	
Collector-Base Voltage	MMBTA55	V _{CBO}	-60	V	
Collector-base voltage	MMBTA56	V CBO	-80		
Collector-Emitter	MMBTA55	V _{CEO}	-60	V	
Voltage	MMBTA56	V CEO	-80	V	
Emitter-Base Voltage	V_{EBO}	-4	V		
Continuous Collector C	Ι _C	-500	mA		
Power Dissipation	P _D	225	mW		

Note:

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

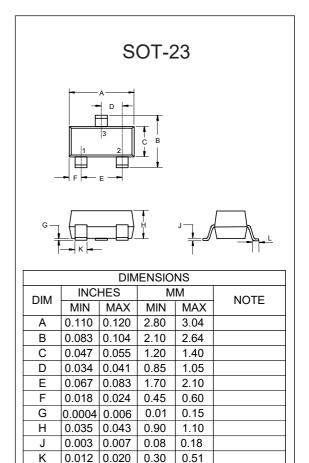
Marking: MMBTA55: 2H MMBTA56: 2GM

Internal Structure



1.BASE
2.EMITTER
3.COLLECTOR
0.00LLL010IX

PNP General Purpose Amplifier



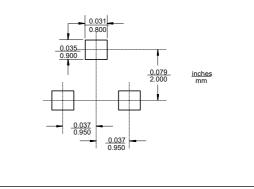
Suggested Solder Pad Layout

0.20

0.50

0.007 0.020

L



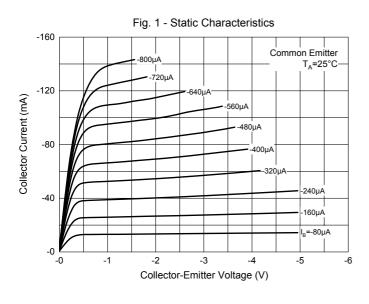


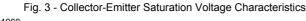
Electrical Characteristics @ $T_A \!\!=\! 25^\circ C$ Unless Otherwise Specified

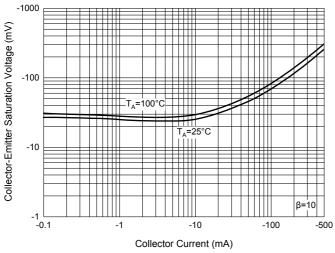
Parameter		Symbol	Min	Тур	Мах	Units	Conditions
Collector-Base Breakdown Voltage	MMBTA55	V _{(BR)CBO}	-60			V	Ι _C =-100μΑ, Ι _E =0
	MMBTA56		-80			V	
Collector-Emitter Breakdown Voltage	MMBTA55	V _{(BR)CEO}	-60			V	I _C =-1mA, I _B =0
	MMBTA56		-80			V	
Emitter-Base Breakdown Voltage		V _{(BR)EBO}	-4			V	I _E =-100μA, I _C =0
Collector Cutoff Current	MMBTA55	I _{CBO}			-0.1	μA	V_{CB} =-60V, I _E =0
	MMBTA56				-0.1	μA	V _{CB} =-80V, I _E =0
Emitter Cutoff Current		I _{CES}			-0.1	μA	V _{CE} =-60V, I _B =0
DC Current Gain		h _{FE(1)}	100				V _{CE} =-1V, I _C =-10mA
		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 Voltage		V_{BE}			-1.2	V	V _{CE} =-1V, I _C =-100mA
Transition Frequency		f⊤	50			MHz	V _{CE} =-1V, I _C =-100mA, f=100MHz

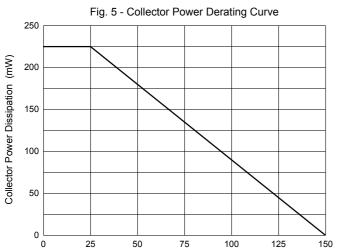


Curve Characteristics









Ambient Temperature (°C)

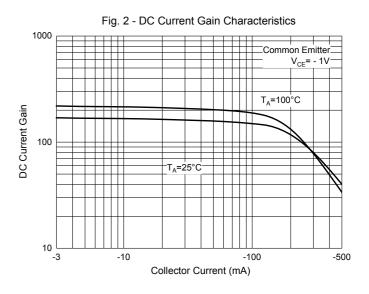
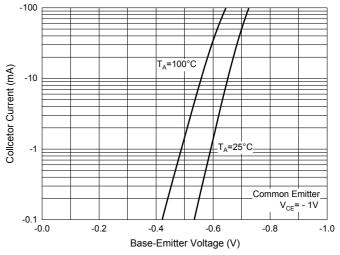


Fig. 4 - Base-Emitter Voltage Characteristics





Ordering Information

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

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