

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

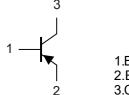
Parameter	Symbol	Rating	Unit		
Collector-Base Voltage	MMBTA55	V_{CBO}	-60	V	
Collector-base voltage	MMBTA56	v CBO	-80		
Collector-Emitter	MMBTA55	V_{CEO}	-60	V	
Voltage	MMBTA56	V CEO	-80	V	
Emitter-Base Voltage	V_{EBO}	-4	V		
Continuous Collector C	I _C	-500	mA		
Power Dissipation	P_D	225	mW		

Note

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

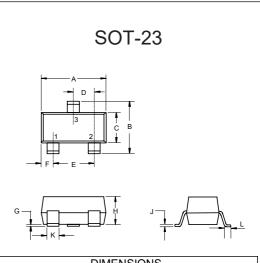
Marking: MMBTA55: 2H MMBTA56: 2GM

Internal Structure



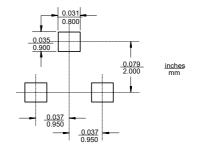
1.BASE 2.EMITTER 3.COLLECTOR

PNP General Purpose Amplifier



DIMENSIONS					
DIM N	INC	HES	М	M	NOTE
	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



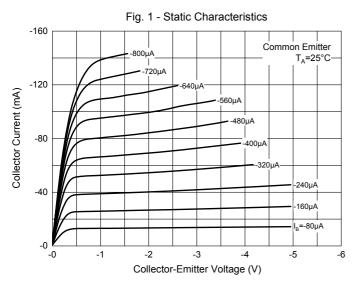


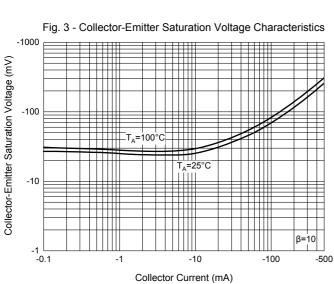
Electrical Characteristics @ $T_A=25^{\circ}C$ Unless Otherwise Specified

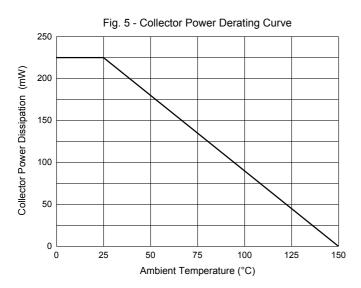
Parameter		Symbol	Min	Тур	Max	Units	Conditions	
Collector-Base Breakdown Voltage	MMBTA55	V _{(BR)CBO}	-60			V	I _C =-100μA, I _E =0	
	MMBTA56		-80			V	1 _C =-100μΛ, 1 _E =0	
Collector-Emitter Breakdown Voltage	MMBTA55	V _{(BR)CEO}	-60			V	I_{C} =-1mA, I_{B} =0	
	MMBTA56		-80			V	IC=- IIIIA, IB=0	
Emitter-Base Breakdown Voltage		$V_{(BR)EBO}$	-4			V	I _E =-100μA, I _C =0	
Collector Cutoff Current	MMBTA55	I _{CBO}			-0.1	μΑ	V_{CB} =-60V, I_E =0	
	MMBTA56				-0.1	μΑ	V_{CB} =-80V, I_E =0	
Emitter Cutoff Current		I _{CES}			-0.1	μΑ	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 _T	50			MHz	V _{CE} =-1V, I _C =-100mA, f=100MHz	

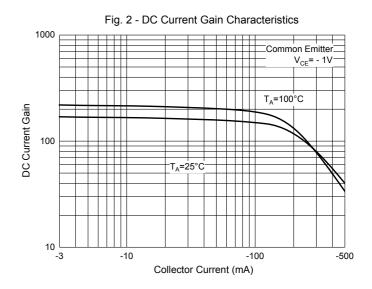


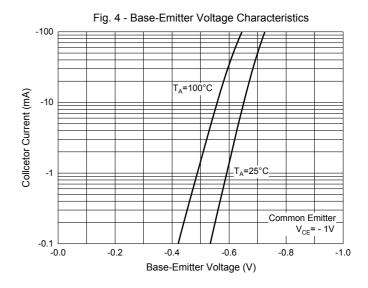
Curve Characteristics













Ordering Information

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

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