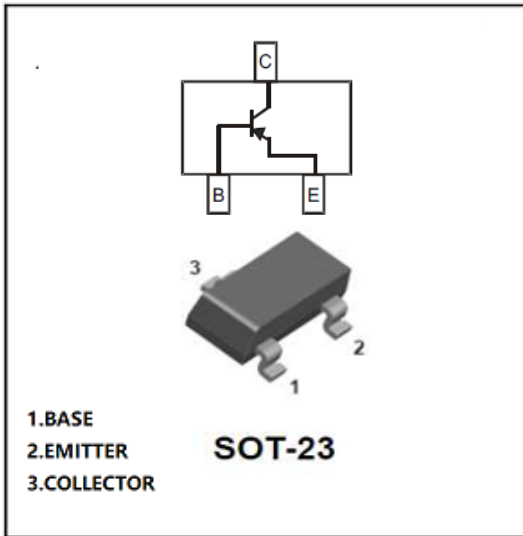


PNP General Purpose Amplifier



Features

- Epoxy meets UL-94 V-0 flammability rating
- Halogen free available upon request by adding suffix "HF"
- Moisture Sensitivity Level 1
- High Conductance
- Surface Mount Package Ideally Suited for Automatic Insertion

Mechanical Data

- **Package:** SOT-23
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Marking:**

MMBTA55	2H
MMBTA56	2GM

■Maximum Ratings (Ta=25°C unless otherwise noted)

Item	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO} MMBTA55 MMBTA56	-60 -80	V
Collector-Emitter Voltage	V_{CEO} MMBTA55 MMBTA56	-60 -80	V
Emitter-Base Voltage	V_{EBO}	-4	V
Collector Current	I_C	-500	mA
Collector Power Dissipation	P_C	225	mW
Operation Junction Temperature	T_j	-55 to +150	°C
Storage Temperature	T_{stg}	-55 to +150	°C



MMBTA55 THRU MMBTA56

RoHS
COMPLIANT

■Electrical Characteristics (T_a=25°C Unless otherwise specified)

Item	Symbol	Unit	Conditions	Min	Max
Collector-emitter breakdown voltage	V _{CEO}	V	IC = -1mA, IB=0 MMBTA55 MMBTA56	-60 -80	
Emitter-base breakdown voltage	V _{EBO}	V	IE=-100μA, IC=0	-4	
Collector-base cut-off current	I _{CBO}	μA	VCB=-60V, IE=0, VCB=-80V, IE=0, MMBTA55 MMBTA56		-0.1 -0.1
Collector-emitter cut-off current	I _{CES}	μA	VCE=-60V, IB=0V,		-0.1
DC current gain	h _{FE}		VCE=-1V, IC=-10mA	100	
	h _{FE}		VCE=-1V, IC=-100mA	100	
Collector-emitter saturation voltage	V _{CE(sat)}	V	IC=-100mA, IB=-10mA		-0.25
Base-emitter saturation voltage	V _{BE(sat)*}	V	IC=-100mA, IB=-10mA		-1.2

■Other Characteristics (T_a=25°C Unless otherwise specified)

Item	Symbol	Unit	Conditions	Min	Max
Transition frequency	f _T	MHz	VCE=-20V, IC=-10mA, f=100MHz	250	

■Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MMBTA55 MMBTA56	F2	Approximate 0.009	3000	30000	120000	7" reel

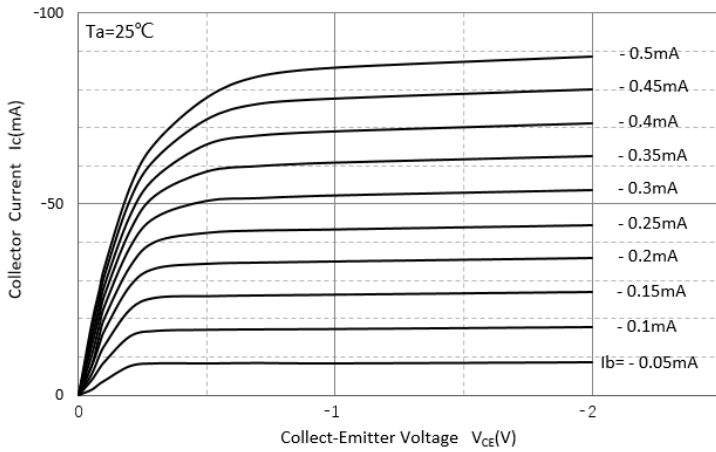


MMBTA55 THRU MMBTA56

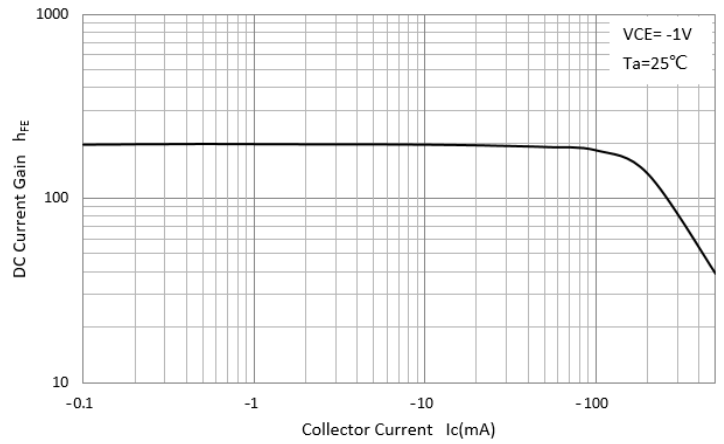
RoHS
COMPLIANT

■ Characteristics(Typical)

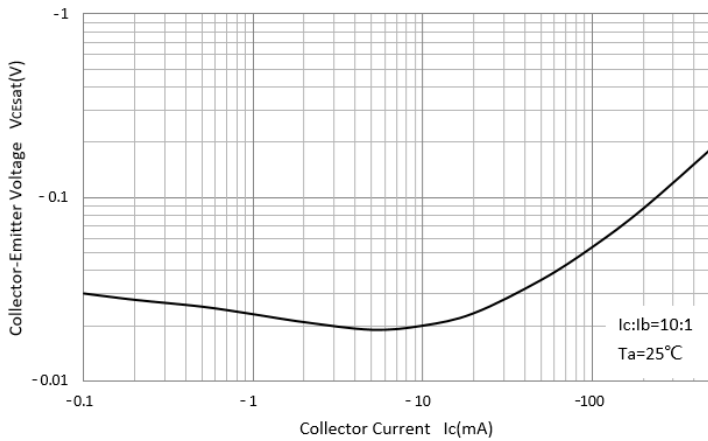
Static Characteristic



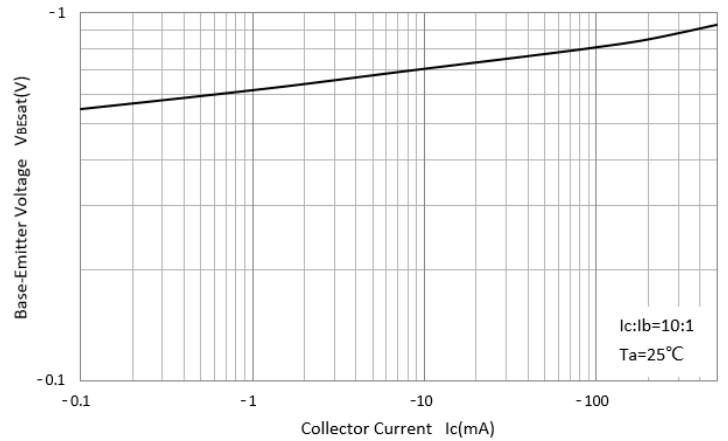
DC Current Gain



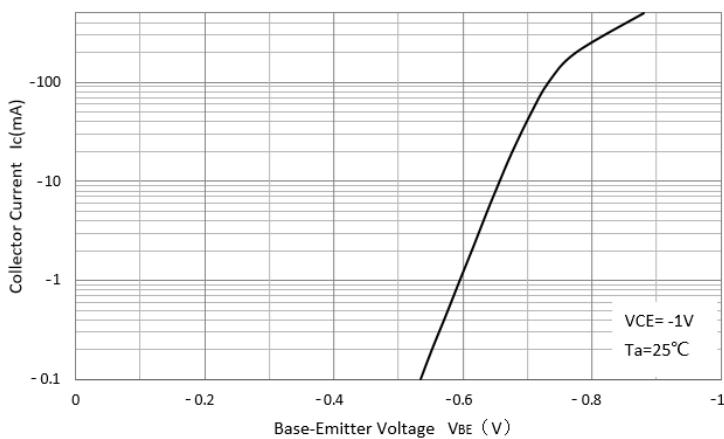
Collector-Emittor Saturation Voltage



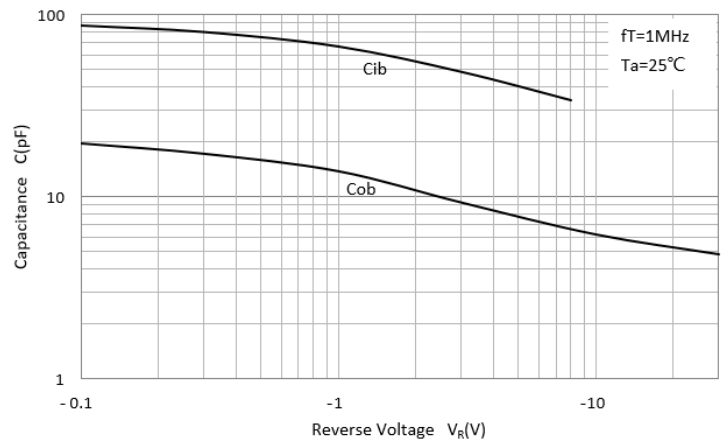
Base-Emittor Saturation Voltage



Base-Emittor On Voltage



$C_{ob}/C_{ib}-V_{CB}/V_{EB}$

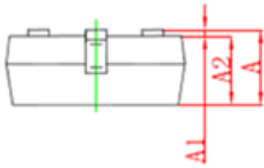
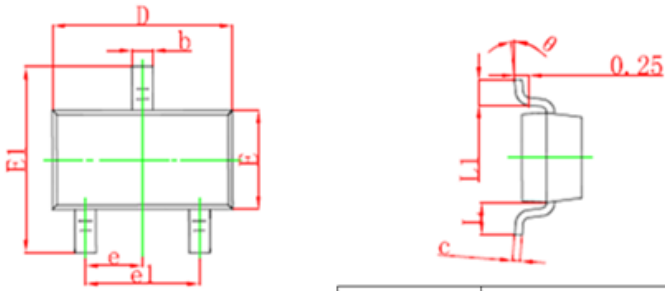




MMBTA55 THRU MMBTA56

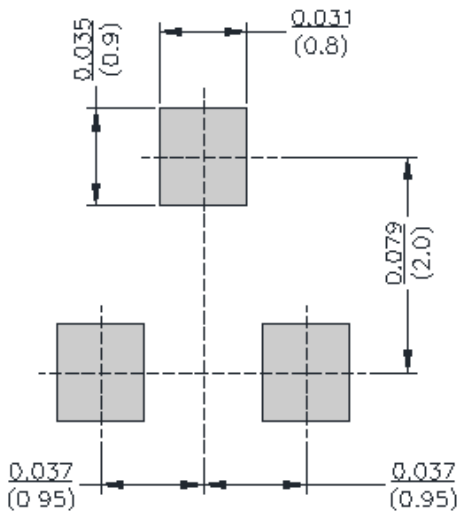
RoHS
COMPLIANT

■SOT-23 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.100	0.200	0.004	0.008
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950TYP		0.037TYP	
e1	1.800	2.000	0.071	0.079
L	0.550REF		0.022REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

■SOT-23 Soldering Footprint





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