Elektronische Bauelemente

MMBTA56

-0.5A , -80V

PNP Plastic Encapsulated Transistor

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

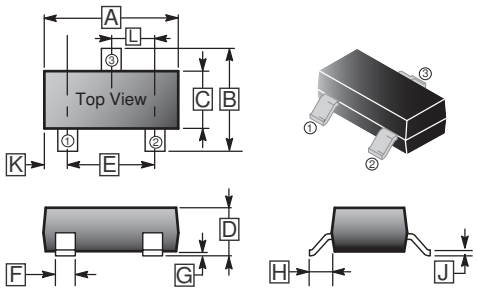
FEATURES

- General Purpose Amplifier Applications

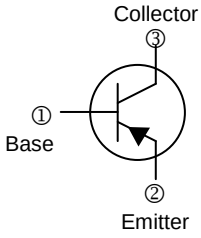
MARKING

2GM

SOT-23



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.70	3.04	G	-	0.18
B	2.10	2.80	H	0.40	0.60
C	1.20	1.60	J	0.08	0.20
D	0.89	1.40	K	0.6 REF.	
E	1.78	2.04	L	0.85	1.15
F	0.30	0.50			



PACKAGE INFORMATION

Package	MPQ	Leader Size
SOT-23	3K	7' inch

MAXIMUM RATINGS (T_A = 25°C unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Collector - Base Voltage	V_{CBO}	-80	V
Collector - Emitter Voltage	V_{CEO}	-80	V
Emitter - Base Voltage	V_{EBO}	-4	V
Collector Current - Continuous	I_C	-500	mA
Collector Power Dissipation	P_C	225	mW
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	555	℃ / W
Junction, Storage Temperature	T_J, T_{STG}	150, -55~150	℃

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test 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 Cut-Off Current	I_{CBO}	-	-	-0.1	μA	V_{CB}= -80V, I_E=0
Collector Cut-Off Current	I_{CEO}	-	-	-0.1	μA	V_{CE}= -60V, I_B=0
Emitter Cut-Off Current	I_{EBO}	-	-	-0.1	μA	V_{EB}= -4V, I_C=0
DC Current Gain	h_{FE1}	100	-	400		V_{CE}= -1V, I_C= -10mA
	h_{FE2}	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}	-	-	-1.2	V	V_{CE}= -1V, I_C= -100mA
Transition frequency	f_T	50	-	-	MHz	V_{CE}= -1V,I_C= -100mA, f=100MHz