

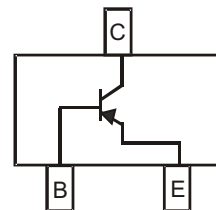
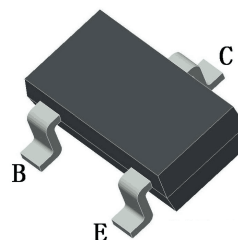
Features

- General Purpose Amplifier Applications

SOT-23

Marking:

- 2GM



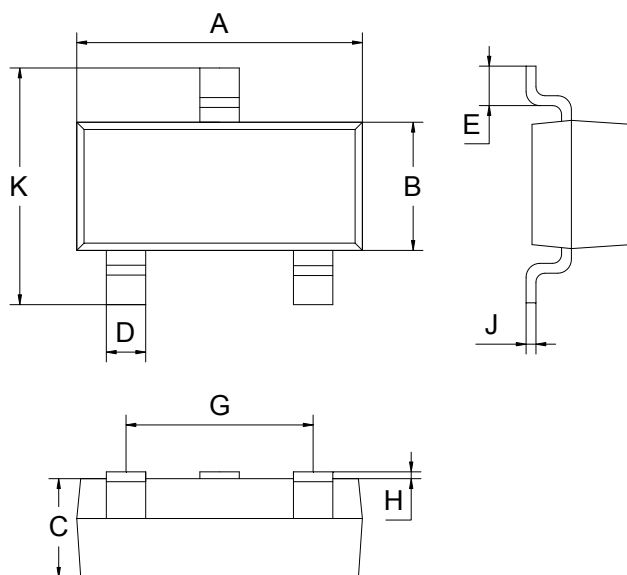
Limiting Values (Absolute Maximum Rating)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	-80	V
V_{CEO}	Collector-Emitter Voltage	-80	V
V_{EBO}	Emitter-Base Voltage	-4	V
I_C	Collector Current	-500	mA
P_C	Collector Power Dissipation	225	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	555	°C/W
T_j	Junction Temperature	150	°C
T_{stg}	Storage Temperature	-55~+150	°C

Electrical Characteristics (Ta=25°C Unless otherwise specified)

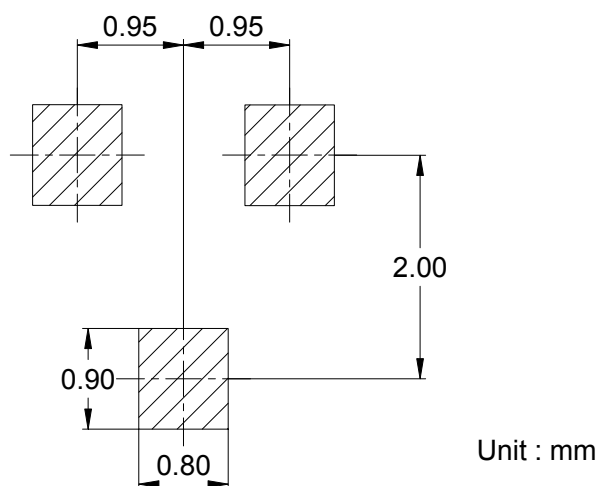
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = -100\mu A, I_E = 0$	-80			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -1mA, I_B = 0$	-80			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -100\mu A, I_C = 0$	-4			V
Collector cut-off current	I_{CBO}	$V_{CB} = -80V, I_E = 0$			-0.1	μA
Collector cut-off current	I_{CEO}	$V_{CE} = -60V, I_B = 0$			-0.1	μA
Emitter-base breakdown voltage	I_{EBO}	$V_{EB} = -4V, I_C = 0$			-0.1	μA
DC current gain	$h_{FE(1)}$	$V_{CE} = -1V, I_C = -10mA$	100		400	
	$h_{FE(2)}$	$V_{CE} = -1V, I_C = -100mA$	100			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -100mA, I_B = -10mA$			-0.25	V
Base-emitter voltage	V_{BE}	$V_{CE} = -1V, I_C = -100mA$			-1.2	V
Transition frequency	f_T	$V_{CE} = -1V, I_C = -100mA, f = 100MHz$	50			MHz

SOT-23 Package Outline Dimensions



SOT-23		
Dim	Min	Max
A	2.70	3.10
B	1.10	1.50
C	0.90	1.10
D	0.30	0.50
E	0.35	0.48
G	1.80	2.00
H	0.02	0.10
J	0.05	0.15
K	2.20	2.60
All Dimensions in mm		

SOT-23 Suggested Pad Layout



Package Information

TYPE	REEL	Reel Size	Box	Carton
MMBTA56	3000 pcs	7 Inch	45,000 pcs	180,000 pcs