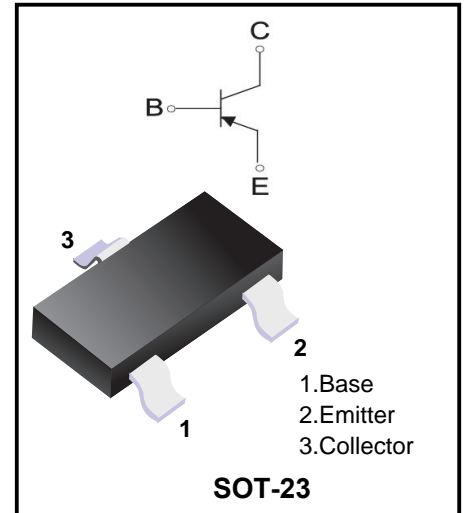


Plastic-Encapsulate Transistors

TRANSISTOR (PNP)

FEATURES

◆Driver Transistors



Marking Code	
MMBTA55	2H

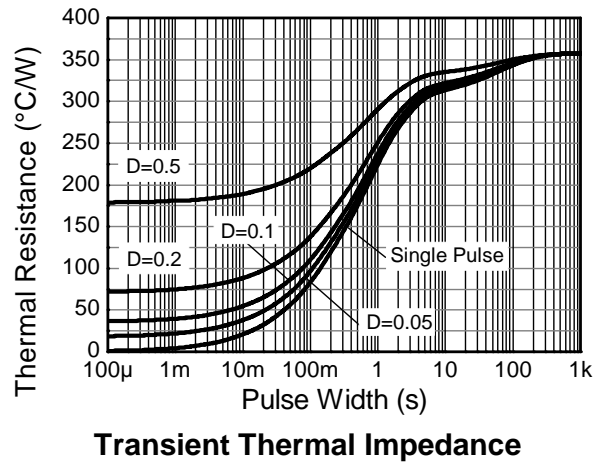
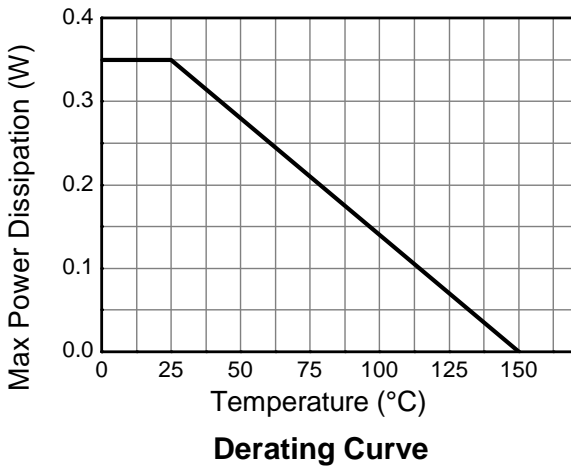
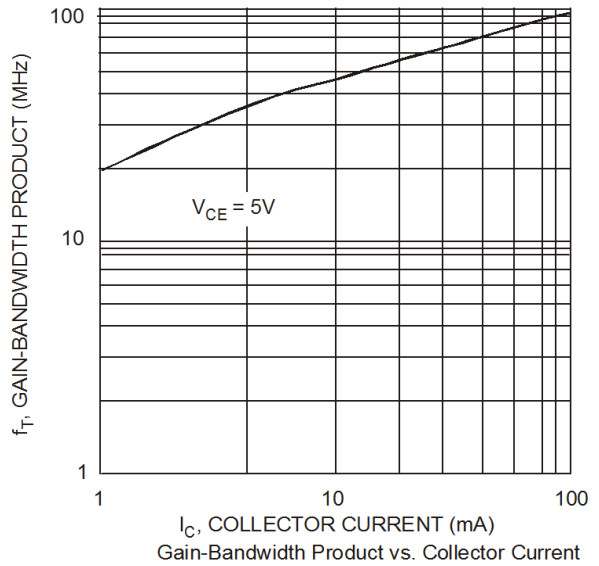
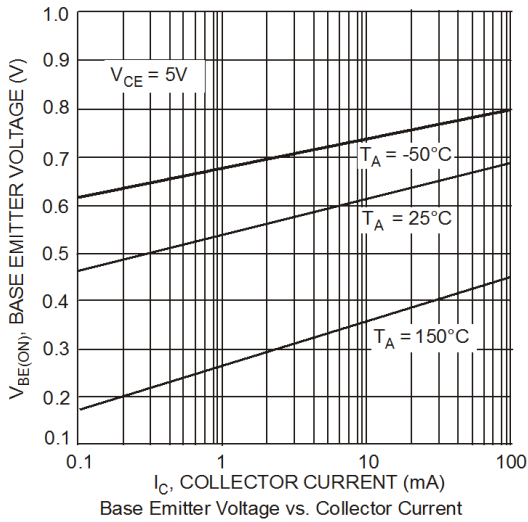
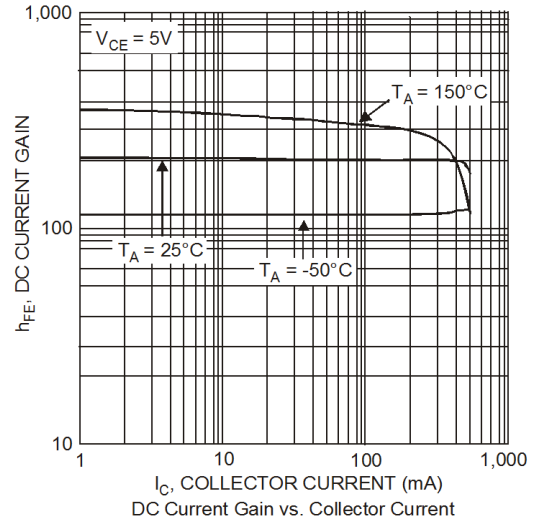
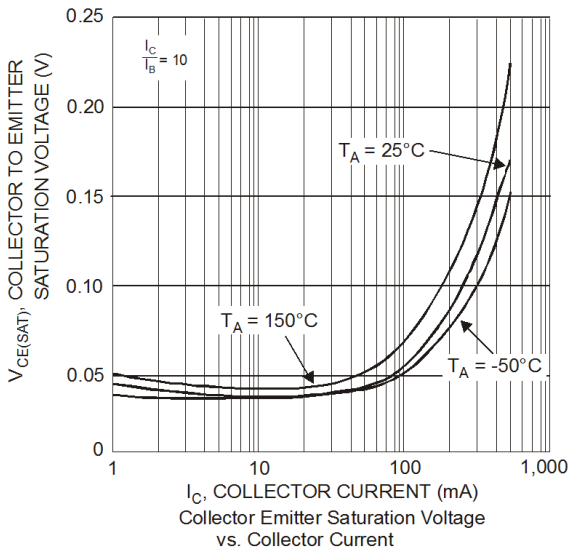
MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V_{CBO}	-60	V
Collector-Emitter Voltage	V_{CEO}	-60	V
Emitter-Base Voltage	V_{EBO}	-4	V
Collector Current	I_C	-500	mA
Collector Power Dissipation	P_C	225	mW
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	556	°C/W
Junction Temperature	T_J	150	°C
Storage Temperature	T_{STG}	-55~+150	°C

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

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

Typical Electrical Characteristics (@TA = +25°C, unless otherwise specified.)



Ordering information

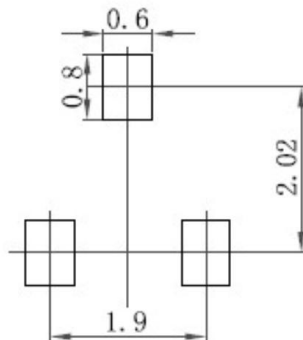
Package	Packing Description	Base Quantity	Packing Quantity
SOT-23	Tape/Reel,7"reel	3000pcs/Reel	24000PCS/Box 120000PCS/Carton

Package Dimensions

SOT-23

Dim.	Millimeter (mm)		mil	
	Min.	Max.	Min.	Max.
A	0.9	1.15	35	45
A1	0.1		3.9	
bp	0.38	0.48	15	19
C	0.09	0.15	3.54	5.9
D	2.8	3.0	110	118
E	1.2	1.4	47	55
e	1.9		75	
e1	0.95		37	
HE	2.1	2.55	83	100
Lp	0.15	0.45	5.9	18
Q	0.45	0.55	18	22
v	0.2		7.9	
W	0.1		4	

The recommended mounting pad size



Disclaimer

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