MMBTA55-A56

PNP General Purpose Transistor

Features

- Epitaxial planar die construction.
- Complementary PNP type available(MMBTA55/MMBTA56).
- Low collector-emitter saturation voltage.
- RoHS compliant package

Application

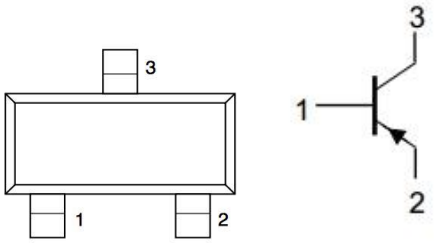
- Ideal for medium PNP amplification and switching.
- Case：SOT-23

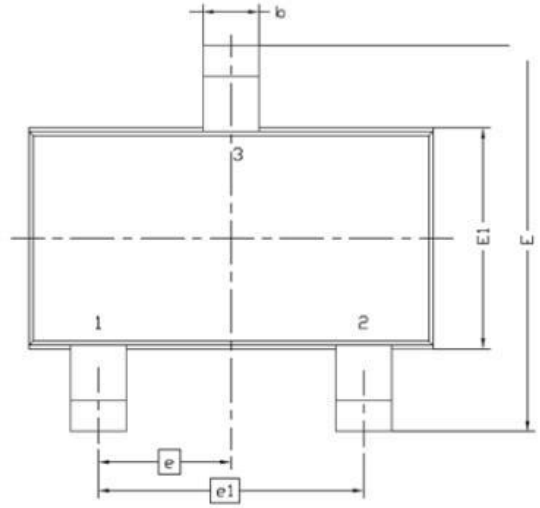
Packing & Order Information

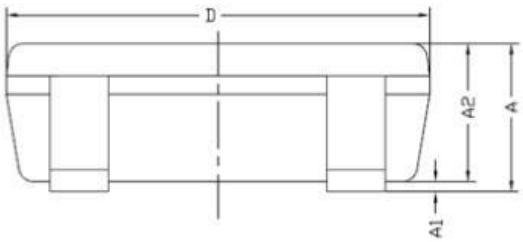
3,000/Reel

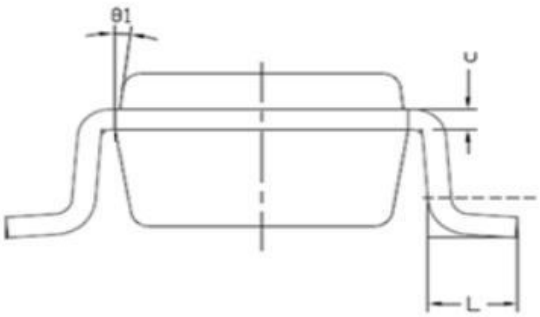
RoHS
COMPLIANT

Graphic symbol









Symbol	MILLIMETERS	
	MIN	MAX
A	0.8	1.2
A1	0	0.1
A2	0.7	1.1
b	0.3	0.5
c	0.1	0.2
D	2.7	3.1
E	2.6	3
E1	1.4	1.8
e	0.95 BSC	
e1	1.9 BSC	
L	0.3	0.6
θ1	7° NOM	

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MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

MAXIMUM RATING @ Ta=25℃ unless otherwise specified				
Symbol	Parameter	MMBTA55	MMBTA56	Unit
V_{CBO}	Collector-Base Voltage	-60	-80	V
V_{CEO}	Collector-Emitter Voltage	-80	-80	V
V_{EBO}	Emitter-Base Voltage	-4		V
I_C	collector current (DC)	-0.5		A
P_C	Collector Dissipation	-0.3		W
$R_{\theta JA}$	Thermal resistance junction to ambient	417		°C/W
Tj,Tstg	Junction and Storage Temperature	-55 to +150		°C

Ordering Information		
Type No.	Marking	Package Code
MMBTA55	2H	SOT-23
MMBTA56	2GM	SOT-23

ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified					
Symbol	Parameter	Test Conditions	MIN	MAX	UNIT
$V_{(BR)CBO}$	Collector-base breakdown voltage (MMBTA55) Collector-base breakdown voltage (MMBTA56)	I_C = -100μA , I_E = 0	-60 -80		V
$V_{(BR)CEO}$	Collector-emitter breakdown voltage(MMBTA55) Collector-emitter breakdown voltage(MMBTA56)	I_C = -1.0mA , I_B = 0	-60 -80		V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	I_E = 100μA , I_C = 0	-4		V
I_{CBO}	Collector cut-off current (MMBTA55) Collector cut-off current (MMBTA56)	V_{CB} = -60 V , I_E = 0 V_{CB} = -80 V , I_E = 0		-0.1	μA
I_{CEO}	Collector cut-off current (MMBTA55) Collector cut-off current (MMBTA56)	V_{CB} = -60 V , I_B = 0 V_{CB} = -80 V , I_B = 0		-0.1	μA
h_{FE}	DC current gain	V_{CE} = -1 V , I_C = -10mA V_{CE} = -1 V , I_C = -100mA	100 100		-
$V_{CE(sat)}$	Collector-emitter saturation voltage	I_C = -100mA , I_B = -10mA		-0.25	V
$V_{BE(ON)}$	Base-emitter voltage	I_C = -100mA , I_{CE} = -1.0 V		-1.2	V
f_T	Transition frequency	V_{CE} = -1 V , I_C = -100mA f = 100MHz	50		MHz

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