

PNP General Purpose Transistor

MMBTA63/MMBTA64

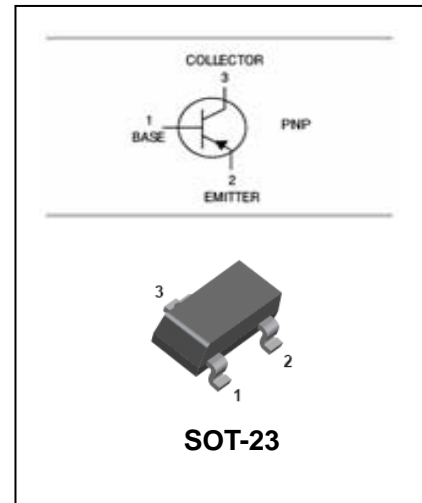
FEATURES

- Epitaxial planar die construction.
- Complementary NPN type available (MMBTA13/MMBTA14).
- High current gain.



APPLICATIONS

- Ideal for medium power amplification and switching



ORDERING INFORMATION

Type No.	Marking	Package Code
MMBTA63	2U	SOT-23
MMBTA64	2V	SOT-23

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Symbol	Parameter	Value	UNIT
V _{CBO}	collector-base voltage	MMBTA63	-30
		MMBTA64	-30
V _{CEO}	collector-emitter voltage	MMBTA63	-30
		MMBTA64	-30
V _{EBO}	emitter-base voltage	-10	V
I _C	collector current (DC)	-0.3	A
P _C	Collector dissipation	0.35	W
R _{θJA}	Thermal Resistance, Junction to Ambient	357	°C/W
T _j , T _{stg}	junction and storage temperature	-55-150	°C

PNP General Purpose Transistor

MMBTA63/MMBTA64

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Symbol	Parameter	Test conditions	MIN.	MAX.	UNIT
$V_{(BR)CBO}$	Collector-base breakdown voltage MMBTA63 MMBTA64	$I_C = -100\mu A, I_E = 0$	-30 -30	-	V
$V_{(BR)CEO}$	Collector-emitter breakdown voltage MMBTA63 MMBTA64	$I_C = -0.1mA, I_B = 0$	-30 -30	-	V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E = -100\mu A, I_C = 0$	-10	-	V
I_{CBO}	collector cut-off current	$I_E = 0; V_{CB} = -30V$	-	-0.1	μA
I_{CEO}	collector cut-off current	$I_E = 0; V_{CE} = -10V$	-	-0.1	μA
h_{FE}	DC current gain	MMBTA63 $V_{CE} = -5V; I_C = -10mA$	5000	-	
		MMBTA64 $V_{CE} = -5V; I_C = -10mA$	10000		
		MMBTA63 $V_{CE} = -5V; I_C = -100mA$	10000		
		MMBTA64 $V_{CE} = -5V; I_C = -100mA$	20000		
$V_{CE(sat)}$	collector-emitter saturation voltage	$I_C = -100mA; I_B = -0.1mA$	-	-1.5	V
f_T	transition frequency	$I_C = -10mA; V_{CE} = -5.0V;$ $f = 100MHz$	125	-	MHz

PACKAGE OUTLINE

Plastic surface mounted package

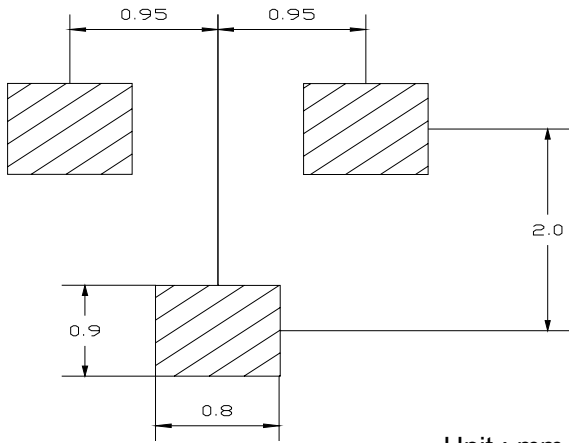
SOT-23

	SOT-23	
	Dim	Min
A	2.85	2.95
B	1.25	1.35
C	1.0Typical	
D	0.37	0.43
E	0.35	0.48
G	1.85	1.95
H	0.02	0.1
J	0.1Typical	
K	2.35	2.45
All Dimensions in mm		

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SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
MMBTA63/MMBTA64	SOT-23	3000/Tape&Reel