

SOT-23 Plastic-Encapsulate Transistor

MMBTA92 TRANSISTOR (PNP)

FEATURES SOT-23

• High voltage transistor

Marking: 2D





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

Symbol	Parameter	Value	Unit	
V _{CBO}	Collector-Base Voltage	-300	V	
V _{CEO}	Collector-Emitter Voltage	-300	V	
V _{EBO}	Emitter-Base Voltage	-5	V	
Ic	Collector Current –Continuous	-0.3	Α	
P _{C*}	Collector Power Dissipation	300	mW	
Reja	Thermal Resistance, junction to Ambient	410	°C/mW	
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature	-55-150	°C	

ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)

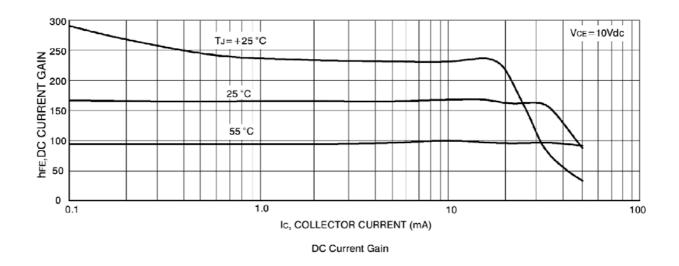
Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = -100μA, I _E =0	-300		V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = -1mA, I _B =0	-300		V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = -100μA, I _C =0	-5		V
Collector cut-off current	I _{CBO}	V _{CB} =-200V, I _E =0		-0.25	μA
Emitter cut-off current	I _{EBO}	V _{EB} = -5V, I _C =0		-0.1	μA
	h _{FE(1)}	V _{CE} = -10V, I _C = -1mA	60		
DC current gain	h _{FE(2)}	V _{CE} = -10V, I _C =-10mA	100	200	
	h _{FE(3)}	V _{CE} =-10V, I _C =-30mA	60		
Collector-emitter saturation voltage	V _{CE} (sat)	I _C =-20mA, I _B = -2mA		-0.2	V
Base-emitter saturation voltage	V _{BE} (sat)	I _C = -20mA, I _B =-2mA		-0.9	V
Transition frequency	f⊤	V _{CE} = -20V, I _C = -10mA, f=30MHz	50		MHz

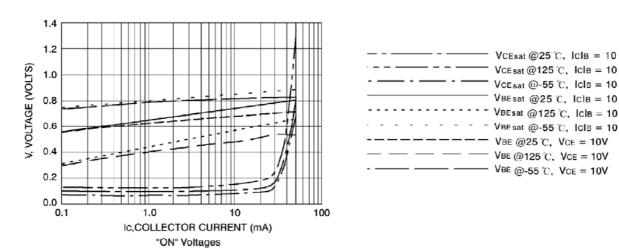
DN:T20C11A0

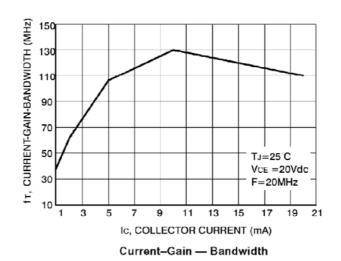
The above data are for reference only.



Typical Characteristics







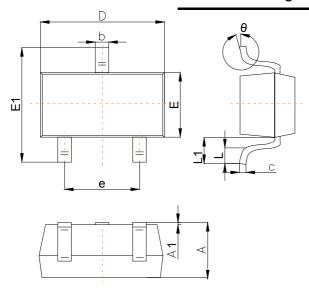
The curve above is for reference only.

http://www.microdiode.com Rev:2020A0 Page :2



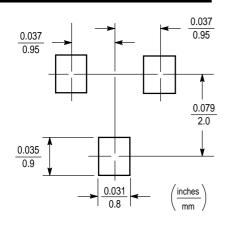
Outlitne Drawing

SOT-23 Package Outline Dimensions



Symbol	Dimensions In Millimeters							
Syllibol	Min	Тур	Max					
Α	0.90		1.40					
A1	0.00		0.10					
b	0.30		0.50					
С	0.08		0.20					
D	2.80	2.90	3.10					
Е	1.20		1.60					
E1	2.25		2.80					
е	1.80	1.90	2.00					
L	0.10		0.50					
L1	0.4		0.55					
θ	0°		10°					

Suggested Pad Layout



Note:

- 1. Controlling dimension: in/millimeters.
- 2.General tolerance: ±0.05mm.
- 3. The pad layout is for reference purposes only.

Important Notice and Disclaimer

Microdiode Electronics (Jiangsu) reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

Microdiode Electronics (Jiangsu) makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, not does Microdiode Electronics (Jiangsu) assume any liability for application assistance or customer product design. Microdiode Electronics (Jiangsu) does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

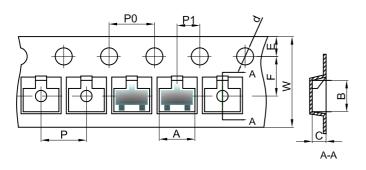
No license is granted by implication or otherwise under any intellectual property rights of Microdiode Electronics (Jiangsu).

Microdiode Electronics (Jiangsu) products are not authorized for use as critical components in life support devices or systems without express written approval of Microdiode Electronics (Jiangsu).



SOT-23 Tape and Reel

SOT-23 Embossed Carrier Tape

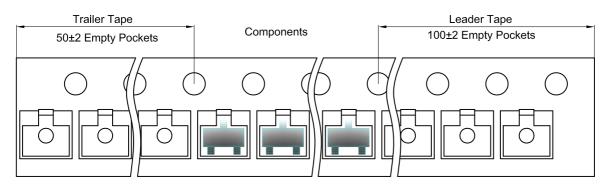


Packaging Description:

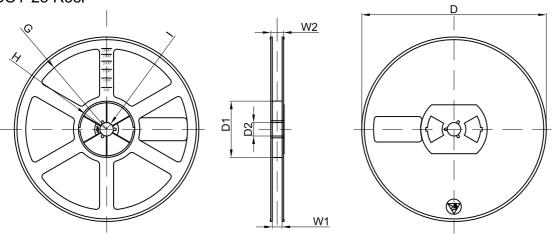
SOT-23 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film,adhesive laye,sealant, and anti-static sprayed agent. These reeled parts In standard option are shipped with 3,000 units per 7" or 17.8cm diameter reel. The reels are clear in color and is made of polystyrene plastic (anti-static coated).

Dimensions are in millimeter										
Pkg type	Pkg type A B C d E F P0 P P1 W									W
SOT-23	3.15	2.77	1.22	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

SOT-23 Tape Leader and Trailer



SOT-23 Reel



Dimensions are in millimeter									
Reel Option	Reel Option D D1 D2 G H I W1 W2								
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30	

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 Inch	45,000 pcs	203×203×195	180,000 pcs	438×438×220	

http://www.microdiode.com Rev:2020A0 Page :4

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Bipolar Transistors - BJT category:

Click to view products by Microdiode Electronics manufacturer:

Other Similar products are found below:

619691C MCH4017-TL-H MMBT-2369-TR BC546/116 BC557/116 BSW67A NJVMJD148T4G NTE123AP-10 NTE153MCP NTE16

NTE195A NTE92 2N4401-A 2N6728 2SA1419T-TD-H 2SA2126-E 2SB1204S-TL-E 2SC2712S-GR,LF SP000011176 2N2907A 2N3904
NS 2N5769 2SC2412KT146S CPH6501-TL-E MCH4021-TL-E MJE340 Jantx2N5416 US6T6TR NJL0281DG 732314D CPH3121-TL-E

CPH6021-TL-H 873787E IMZ2AT108 MMST8098T146 UMX21NTR MCH6102-TL-E NJL0302DG 30A02MH-TL-E NTE13 NTE26

NTE282 NTE323 NTE350 NTE81 STX83003-AP JANTX2N2920L JANSR2N2222AUB CMLT3946EG TR 2SA1371D-AE