

SOT-23 Plastic-Encapsulate Transistors

S9015 TRANSISTOR (PNP)

FEATURES

• Complementary To S9014

MARKING: M6

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

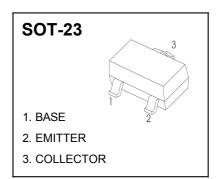
Symbol	Parameter	Value	Unit
V _{сво}	Collector-Base Voltage	-50	V
V _{CEO}	Collector-Emitter Voltage	-45	V
V _{EBO}	Emitter-Base Voltage	-5	V
lc	Collector Current-Continuous	-100	mA
Pc	Collector Power Dissipation	200	mW
Roja	Thermal Resistance From Junction To Ambient	625	°C/W
Tj	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55~+150	°C

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

Parameter	Symb ol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-100μΑ, I _E =0	-50			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-0.1mA,I _B =0	-45			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-100μA,I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-50V, I∈=0			-0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =-5V, Ic=0			-0.1	μA
DC current gain	h _{FE}	V _{CE} =-5V, Ic=-1mA	200		1000	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-100mA, I _B =-10mA			-0.3	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =-100mA, I _B =-10mA			-1	V
Transition frequency	f⊤	Vce=-5V, Ic=-10mA f=30MHz	150			MHz

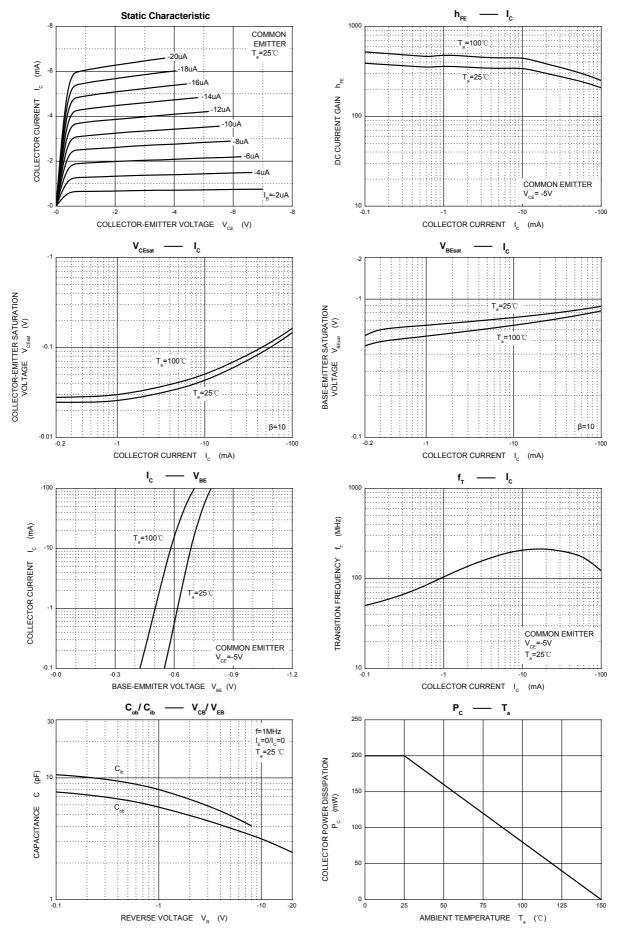
CLASSIFICATION OF hFE

Rank	L	н
Range	200-450	400-1000

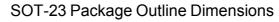


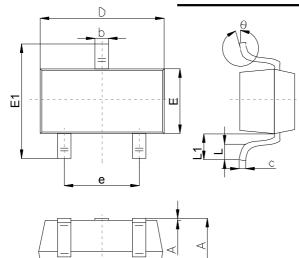


Typical Characteristics

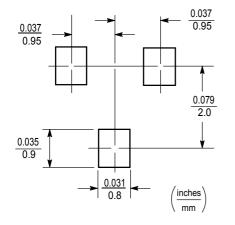








Suggested Pad Layout



Symbol	Dimens	ions In Mi	llimeters
Symbol	Min	Тур	Max
А	1.00		1.40
A1			0.10
b	0.35		0.50
С	0.10		0.20
D	2.70	2.90	3.10
E	1.40		1.60
E1	2.4		2.80
е		1.90	
L	0.10		0.30
L1	0.4		
θ	0°		10°

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.

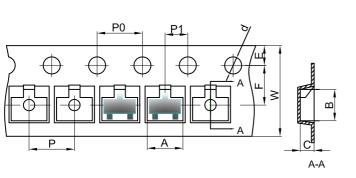
Microdiode Electronics (Jiangsu) makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, not does Microdiode Electronics (Jiangsu) assume any liability for application assistance or customer product design. Microdiode Electronics (Jiangsu) 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 Embossed Carrier Tape

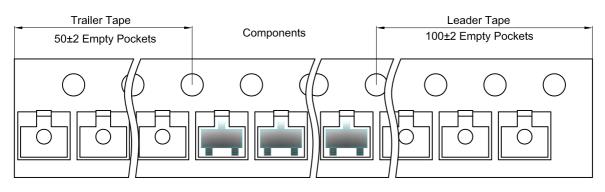


Packaging Description:

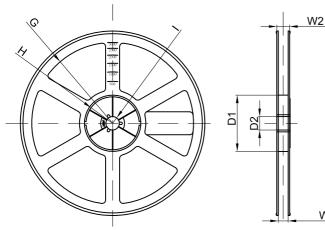
SOT-23 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film,adhesive laye,sealant, and anti-static sprayed agent. These reeled parts In standard 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).

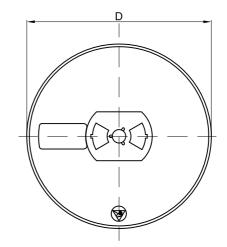
Dimensions are in millimeter										
Pkg type A B C d E F P0 P P1 W									W	
SOT-23	3.15	2.77	1.22	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

SOT-23 Tape Leader and Trailer



SOT-23 Reel





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

W1

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	

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