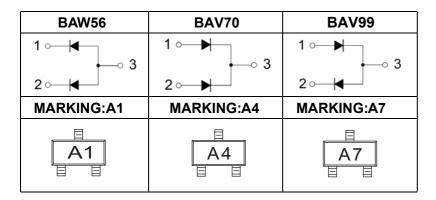


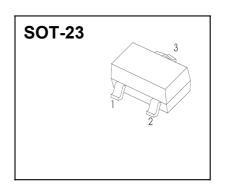
SOT-23 Plastic-Encapsulate Diodes

BAW56/BAV70/BAV99 SWITCHING DIODE

FEATURES

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance





Maximum Ratings @Ta=25℃

Parameter	Symbol	Limit	Unit
Reverse Voltage	V _R	70	V
Forward Current	I _F	200	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2.0	А
Power Dissipation	P_D	225	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	556	°C/W
Junction Temperature	T_J	150	°
Storage Temperature range	T_{STG}	-55~+150	$^{\circ}$

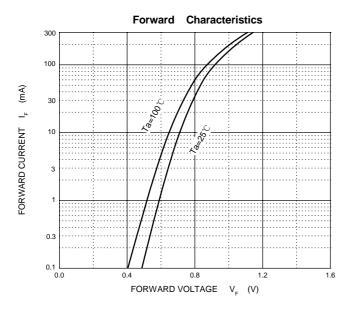
Electrical Characteristics @Ta=25℃

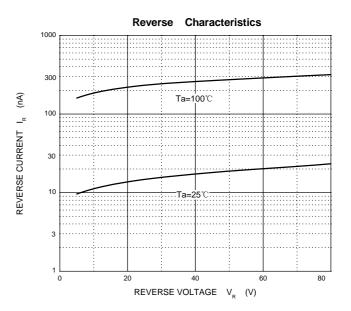
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Reverse breakdown voltage	V _R	I _R =100μA	70			V
	V _{F1}	I _F =1mA			0.715	V
Forward voltage	V _{F2}	I _F =10mA			0.855	V
	V _{F3}	I _F =50mA			1	V
	V _{F4}	I _F =150mA			1.25	V
Reverse current	I _R	V _R =70V			2.5	μA
Capacitance between terminals	Ст	V _R =0,f=1MHz			1.5	pF
Payaraa waaayaru tima		$I_F = I_R = 10$ mA,				no
Reverse recovery time	t _{rr}	Irr= $0.1 \times I_R$, $R_L = 100\Omega$			6	ns

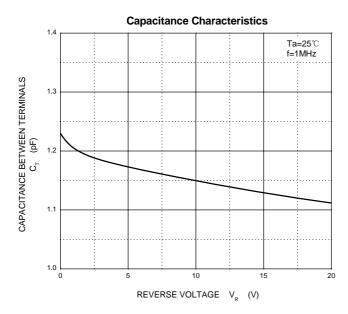


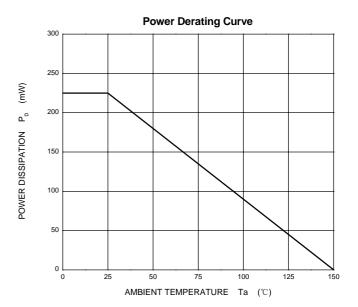


Typical Characteristics







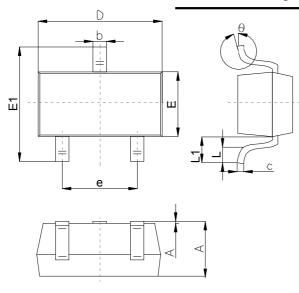


http://www.microdiode.com Rev:2020A0 Page :2



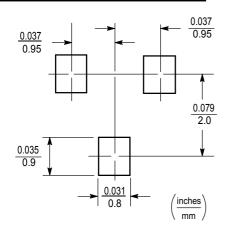
Outlitne Drawing

SOT-23 Package Outline Dimensions



Symbol	Dimensions In Millimeters							
Symbol	Min	Тур	Max					
Α	1.00		1.40					
A1			0.10					
b	0.35		0.50					
С	0.10		0.20					
D	2.70	2.90	3.10					
Е	1.40		1.60					
E1	2.4		2.80					
е		1.90						
Ĺ	0.10		0.30					
L1	0.4							
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.

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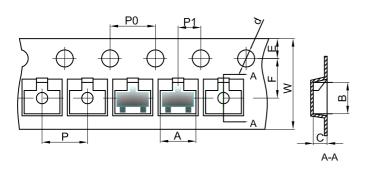
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SOT-23 Tape and Reel

SOT-23 Embossed Carrier Tape

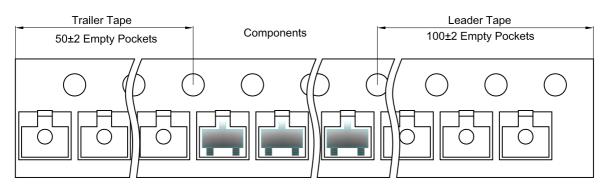


Packaging Description:

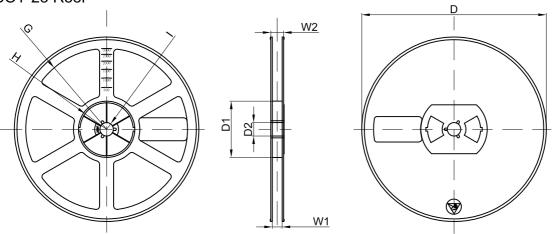
SOT-23 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film,adhesive laye,sealant, and anti-static sprayed agent. These reeled parts In standard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

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NSVM1MA152WKT1G 1SS388-TP RGP30D-E3/73 VS-8EWF02S-M3