

Plastic-Encapsulate Diodes

SWITCHING DIODE

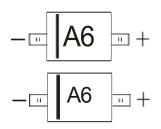
FEATURES

- Very Small Plastic Package
- High Switching Speed

APPLICATIONS

High-Speed Switching in e.g. Surface Mounted Circuits

MARKING: A6 *



PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



MAXIMUM RATINGS (Ta=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{RRM}	Peak Repetitive Reverse Voltage	85	V
V _R	DC Blocking Voltage	75	V
lo	Continuous Forward Current	250	mA
IFSM	Non-repetitive Peak Forward SurgeCurrent@t= 8.3ms	2.0	А
PD	Power Dissipation	250	mW
R ₀ JA	Thermal Resistance from Junction to Ambient	500	°C/W
T _J ,T _{stg} Operation Junction and Storage Temperature Range		-55~+150	°C

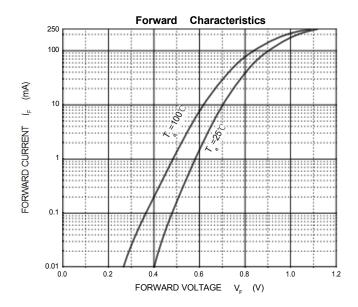
ELECTRICAL CHARACTERISTICS(Ta=25℃ unless otherwise specified)

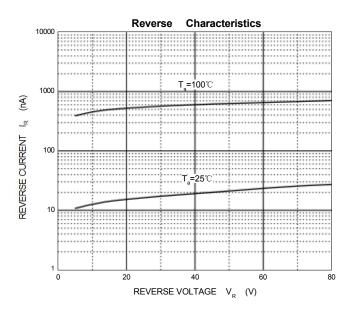
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Reverse voltage	$V_{(BR)}$	I _R =100μA	100			V
Doverno ourrent	I _R	V _R =25V			30	nA
Reverse current	IK IK	V _R =75V			1	μA
		I _F =1mA			0.715	
	V _F	I _F =10mA			0.855	V
Forward voltage	V F	I _F =50mA			1	
		I⊧=150mA			1.25	
Total capacitance	Ctot	V _R =0V,f=1MHz			1.5	pF
Reverse recovery time	t _{rr}	IF= I _R =10mA, I _{rr} =0.1×I _R			4	ns

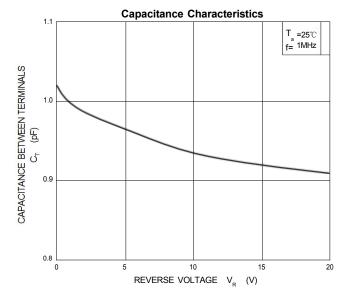
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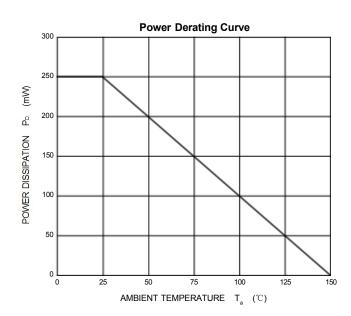


Typical Characteristics







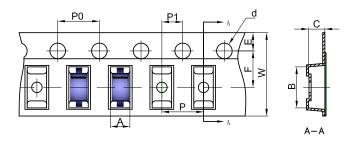


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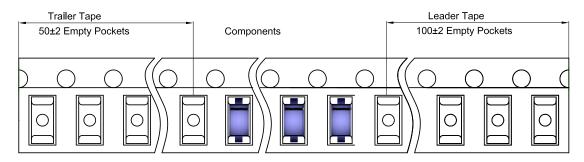
SOD-123 Tape and Reel

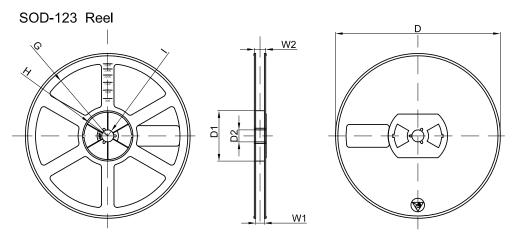
SOD-123 Embossed Carrier Tape



Dimensions are in millimeter										
Pkg type A B C d E F P0 P P1 W										
SOD-123	1.85	3.95	1.57	Ø1.55	1.75	3.50	4.00	4.00	2.00	8.00

SOD-123 Tape Leader and Trailer



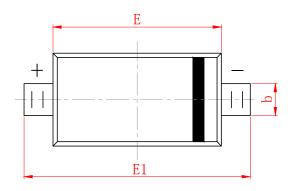


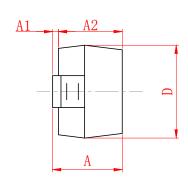
Dimensions are in millimeter								
Reel Option	D	D1	D2	G	Н	Į	W1	W2
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

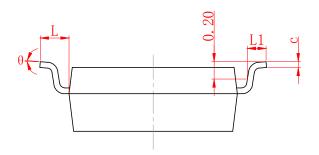
REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	45,000 pcs	203×203×195	180,000 pcs	438×438×220	

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	MILLIMETER				
SYMBOL	MIN	MAX			
A	1.050	1. 250			
A1	0. 000	0. 100			
A2	1.050	1. 150			
b	0. 450	0. 650			
С	0.008	0. 150			
D	1. 500	1.700			
Е	2.600	2.800			
E1	3. 550	3.850			
L	0. 500 (REF)				
L1	0. 250	0. 450			
θ	0°	8°			

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