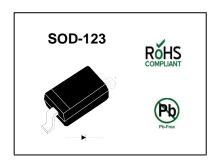


PINNING

PIN	DESCRIPTION			
1	Cathode			
2	Anode			



Schottky Barrier Diodes

These Schottky barrier diodes are designed for high current, handling capability, and low forward voltage performance.

Features

- Low Forward Voltage -0.24 Volts (Typ) @ $I_F = 10$ mAdc
- High Current Capability
- ESD Rating Human Body Model: CLASS 3B
 - Machine Model: C
- Pb-Free Packages are Available

MAXIMUM RATINGS (T_J = 125°C unless otherwise noted)

Rating	Symbol	Value	Unit
Reverse Voltage	V _R	20	Vdc
Peak Revese Voltage	V_{RM}	23	V
Forward Power Dissipation @ T _A = 25°C Derate above 25°C	P _F	200 2.0	mW mW/°C
Forward Current (DC) Continuous	IF	1	А
Forward Current t = 8.3 ms Half Sinewave	lF	5	А
Junction Temperature	T_J	125 Max	°C
Storage Temperature Range	T _{stg}	-55 to +150	°C

Maximum ratings are those values beyond which device damage can occur. Maximum ratings applied to the device are individual stress limit values (not normal operating conditions) and are not valid simultaneously. If these limits are exceeded, device functional operation is not implied, damage may occur and reliability may be affected.

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SR0320W

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Characteristic	Symbol	Min	Тур	Max	Unit
Total Capacitance (V _R = 5.0 V, f = 1.0 MHz)	C _T	-	25	29	pF
Reverse Leakage (V _R = 15 V)	I _R	-	10	50	μAdc
Reverse Leakage (V _R = 2.0 V @ 85° C)	I _R	-	200	300	μΑ
Reverse Leakage (V _R = 15.0 V @ 85° C)	I _R	-	450	1000	μΑ
Forward Voltage (I _F = 10 mAdc)	V _F	-	0.24	0.27	Vdc
Forward Voltage (I _F = 100 mAdc)	V _F	-	0.30	0.35	Vdc
Forward Voltage (I _F = 900 mAdc)	V _F	-	0.45	0.50	Vdc

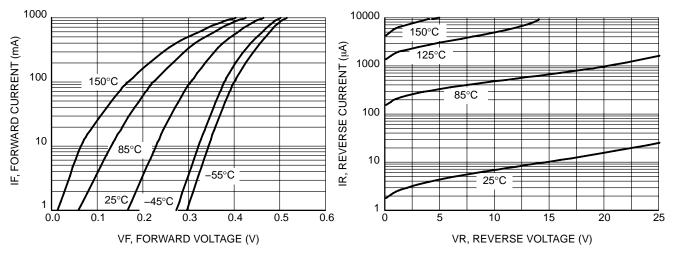


Figure 1. Forward Voltage

Figure 2. Leakage Current

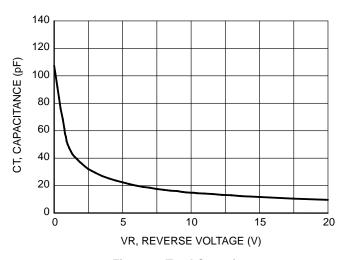


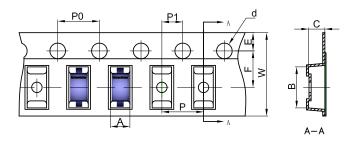
Figure 3. Total Capacitance

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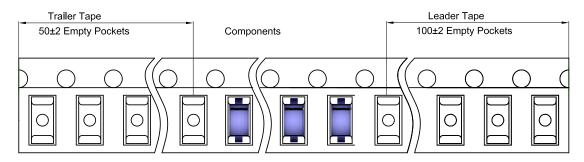
SOD-123 Tape and Reel

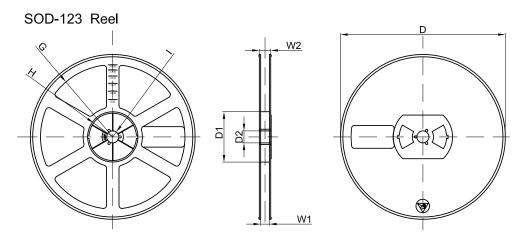
SOD-123 Embossed Carrier Tape



Dimensions are in millimeter										
Pkg type A B C d E F P0 P P1 W							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

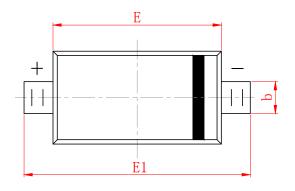


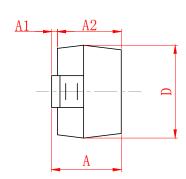


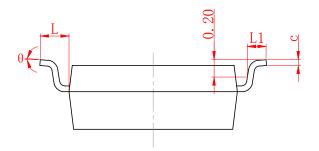
Dimensions are in millimeter								
Reel Option D D1 D2 G H I W1 W2							W2	
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

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	MILLIMETER				
STWIDOL	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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