

Plastic-Encapsulate Diodes

SCHOTTLKY BARRIER DIODE

FEATURES

- For low-loss, fast-recovery, meter protection, bias isolation and clamping application
- Integrated diffused guard ring
- Low forward

MARKING: t



t =Device code

The marking bar indicates the cathode

Maximum Ratings (T_a=25℃ unless otherwise noted)

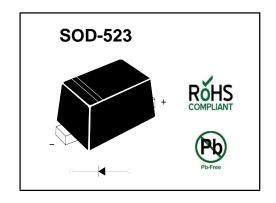
Parameter	Symbol	Value	Unit
Peak reverse voltage	V _{RM}	40	V
DC reverse	V_{R}	40	V
Non-repetitive Peak surge forward current @t=8.3ms	I _{FSM}	0.8	Α
Mean rectifying current	Io	0.25	А
Power Dissipation	P _D	150	mW
Thermal Resistance from Junction to Ambient	R _{θJA}	667	°C/W
Operating Junction Temperature Range	T _j	-40~+125	°C
Storage Temperature Range	T _{stg}	-55~+150	°C

Electrical Ratings (Ta=25℃ unless otherwise noted)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Reverse breakdown voltage	V _R	40			V	I _R =10μA
				350		I _F =1mA
Famurand walkers				430	m\/	I _F =10mA
Forward voltage	V _F			520	mV	I _F =30mA
				750		I _F =100mA
Reverse current	I _R			2	μA	V _R =30V
Capacitance between terminals	Ст			6	pF	V _R =1V,f=1MHz
Develope we are a series of times				_		I _F =10mA,I _R =10mA,
Reverse recovery time	t _{rr}			5	ns	$I_R=1mA,R_L=100\Omega$

PINNING

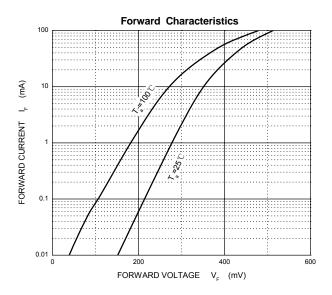
PIN	DESCRIPTION			
1	Cathode			
2	Anode			

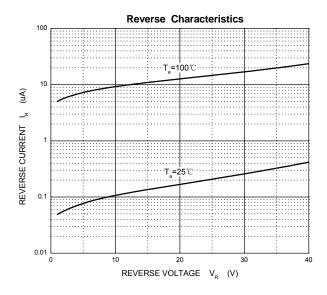


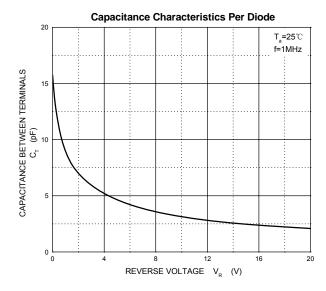
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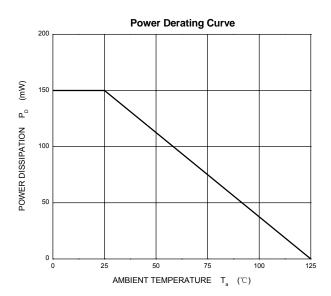


Typical Characteristics





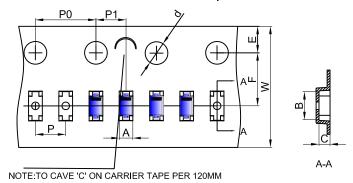




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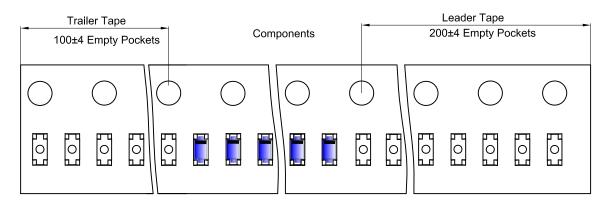


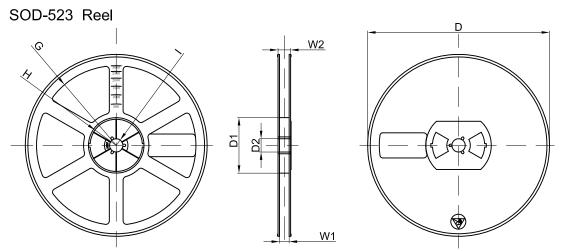
SOD-523 Embossed Carrier Tape



Dimensions are in millimeter										
Pkg type	Α	В	С	d	E	F	P0	Р	P1	W
SOD-523	0.9	1.94	0.73	Ø1.50	1.75	3.50	4.00	2.00	2.00	8.00

SOD-523 Tape Leader and Trailer





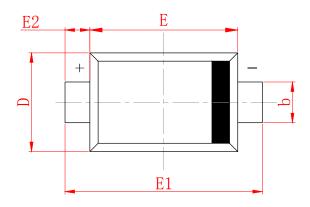
Dimensions are in millimeter								
Reel Option	D	D1	D2	G	Н	I	W1	W2
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

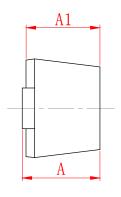
REEL	Reel Size	Вох	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
8000 pcs	7 inch	120,000 pcs	203×203×195	480,000 pcs	438×438×220	

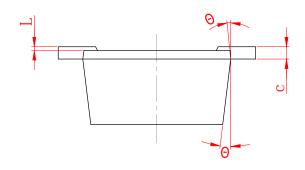
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SOD-523 Package Outline Dimensions







	MILLIMETER				
SYMBOL	MIN	MAX			
A	0. 530	0. 730			
A1	0. 500	0. 700			
b	0. 280	0. 380			
С	0. 080	0. 150			
D	0. 750	0.850			
Е	1. 100	1. 300			
E1	1. 500	1. 700			
E2	0. 200 REF				
L	0.010	0. 070			
θ	7° REF				

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