

Plastic-Encapsulate Diodes

High Speed Switching Diode

FEATURES

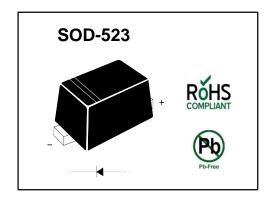
- Small surface mounting type
- High speed
- · High reliability with high surge current handing capability

MARKING: G



PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25℃

Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	85	V
DC Blocking Voltage	V_{R}	80	V
Forward Continuous Current	I _{FM}	200	mA
Average Rectified Output Current	Io	100	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2.0	А
Power Dissipation	Pd	150	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	833	°C/W
Junction Temperature	Tj	150	℃
Storage Temperature	T_{STG}	-55~+150	℃

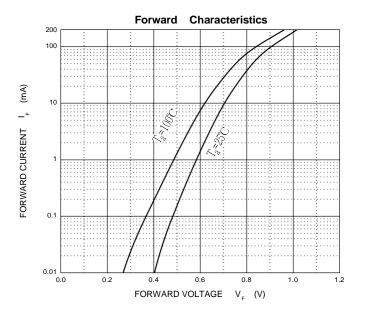
Electrical Ratings @Ta=25℃

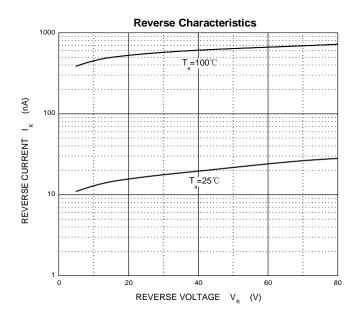
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
	V _{F1}		0.62		٧	I _F =1mA
Forward voltage	V _{F2}		0.75		V	I _F =10mA
	V _{F3}			1.2	V	I _F =100mA
Reverse current	I _{R1}			0.1	μΑ	V _R =30V
Reverse current	I _{R2}			0.5	μΑ	V _R =80V
Capacitance between terminals	Ст			3.0	pF	V _R =0,f=1MHZ
Reverse recovery time	t _{rr}			4	ns	$V_R=6V,I_F=10mA,R_L=100\Omega$

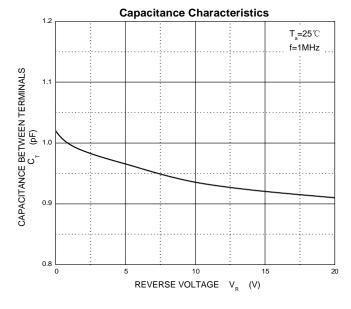
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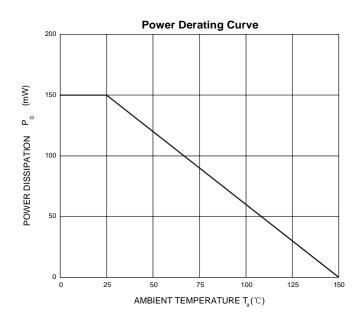


Typical Characteristics





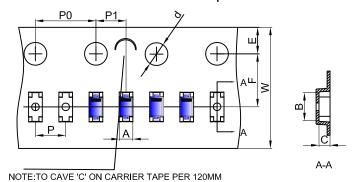




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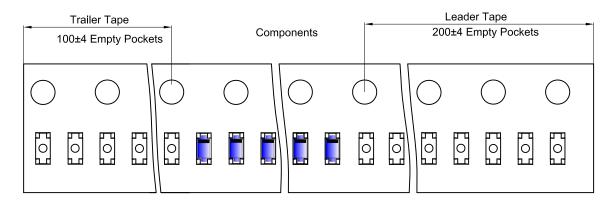


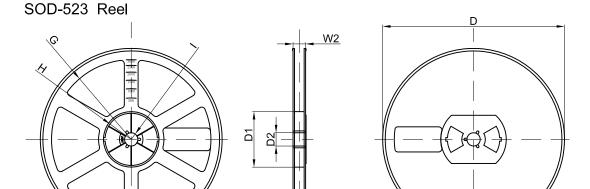
SOD-523 Embossed Carrier Tape



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

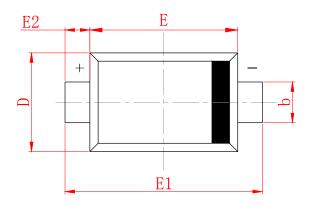
W1

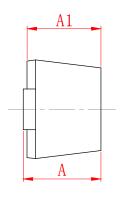
REEL	Reel Size	Вох	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
8000 pcs	7 inch	120,000 pcs	203×203×195	480,000 pcs	438×438×220	

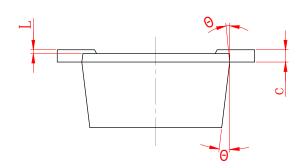
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SOD-523 Package Outline Dimensions







	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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