

Features

- Forward Continuous Current:I_{FM}=350mA
- Power Dissipation of 400mw

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
SD103AW	SOD-123	S4	3000
SD103BW	SOD-123	S5	3000
SD103CW	SOD-123	S6	3000





Maxmim Ratings (Ta=25°C unless otherwise noted)

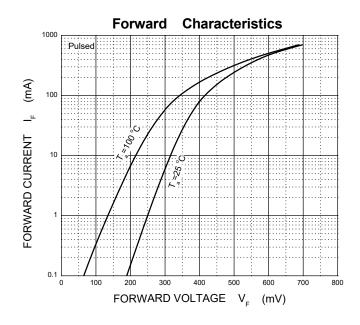
Symbol	Parameter		Unit		
	Farameter	SD103AW	SD103BW	SD103CW	Unit
V_{RRM}	Peak Repetitive Reverse Voltage	40	30	20	
V_{RWM}	Working Peak Reverse Voltage	40		20	V
$V_{R(RMS)}$	RMS Reverse Voltage	28	21	14	V
I _{FM}	Forward Continuous Current	350			mA
I _{FSM}	Non-repetitive Peak Forward Surge Current@t=8.3ms	2		Α	
P_D	Power Dissipation	400		mW	
R _{⊝JA}	Thermal Resistance from Junction to Ambient	250		°C/W	
Tj	Junction Temperature	125		$^{\circ}$	
T _{stg}	Storage Temperature	-55~+150		°C	

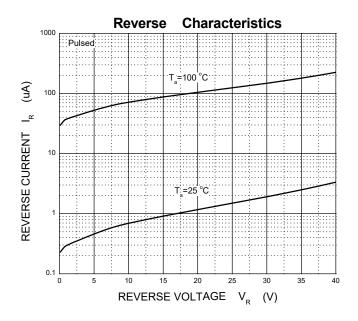
Electrcal Charcteristics (Ta=25°C unless otherwise specified)

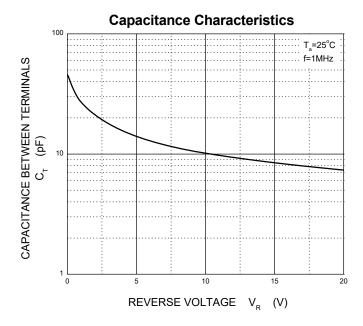
Parameter	Symbol	Test conditions		Min	Тур	Max	Unit	
		I _R =100μA	SD103AW	40				
Reverse voltage	$V_{(BR)}$		SD103BW	30			V	
			SD103CW	20				
Reverse current	I _R	V _R =30V	SD103AW				μА	
		V _R =20V	SD103BW			5		
		V _R =10V	SD103CW					
Forward voltage	V _F	I _F =20mA				0.37	V	
		I _F =200mA				0.6		
Total capacitance	C _{tot}	V _R =0 V,f=1MH	łz		50		pF	
Reverse recovery time	t _{rr}	I _F = I _R =200mA, I _{rr} =0.7	1×I _R , R _L =100Ω		10		ns	

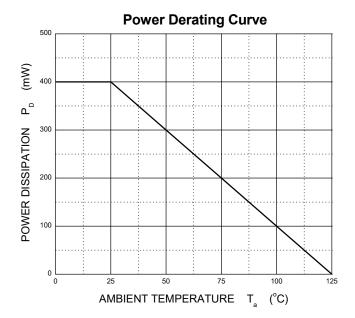


Typical Characteristics



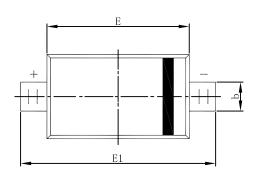


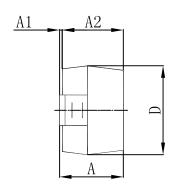


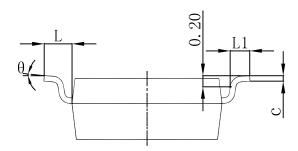




SOD-123 Package Outline Dimensions







Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α	1.050	1.250	0.041	0.049	
A1	0.000	0.100	0.000	0.004	
A2	1.050	1.150	0.041	0.045	
b	0.450	0.650	0.018	0.026	
С	0.080	0.150	0.003	0.006	
D	1.500	1.700	0.059	0.067	
Е	2.600	2.800	0.102	0.110	
E1	3.550	3.850	0.140	0.152	
L	0.500 REF		0.020 REF		
L1	0.250	0.450	0.010	0.018	
θ	0°	8°	0°	8°	

SD103AW/SD103BW/SD103CW SCHOTTKY BARRIER DIODE

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