



SD103AWS / SD103BWS / SD103CWS

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

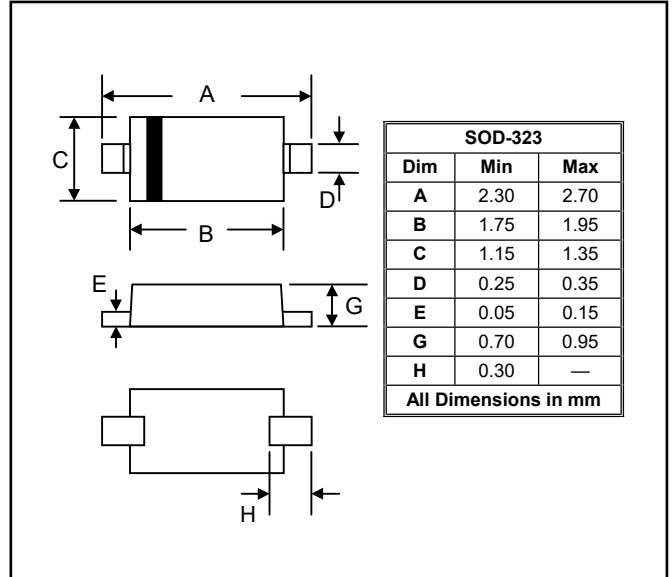
Reverse Voltage - 20~40 Volts Forward Current - 350 mAmpere

FEATURES

- Low Turn-on Voltage
- Fast Switching
- Ultra-small surface mount package.
- PN Junction Guard Ring for Transient and ESD Protection

MECHANICAL DATA

- Case: SOD-323, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.004 grams (approx.)



Maximum Ratings @T_A=25°C unless otherwise specified

Parameter	Symbol	Part Number			Unit
		SD103CWS	SD103BWS	SD103AWS	
Repetitive Peak Reverse Voltage	V _{RRM}	20	30	40	V
Working Peak Reverse Voltage	V _{RWM}	20	30	40	
Maximum DC Blocking Voltage	V _R	20	30	40	
RMS Reverse Voltage	V _{R(RMS)}	14	21	28	
Average Rectified Output Current	I _{FM}	350			mA
Peak Forward Surge Current @8.3ms Single Half Sine-Wave	I _{FSM}	2			A
Power Dissipation	P _D	200			mW
Thermal Resistance Junction to Ambient	R _{θJA}	500			°C / W
Junction and Storage Temperature Range	T _J , T _{STG}	125, -55~150			°C

Electrical Characteristics @T_A=25°C unless otherwise specified

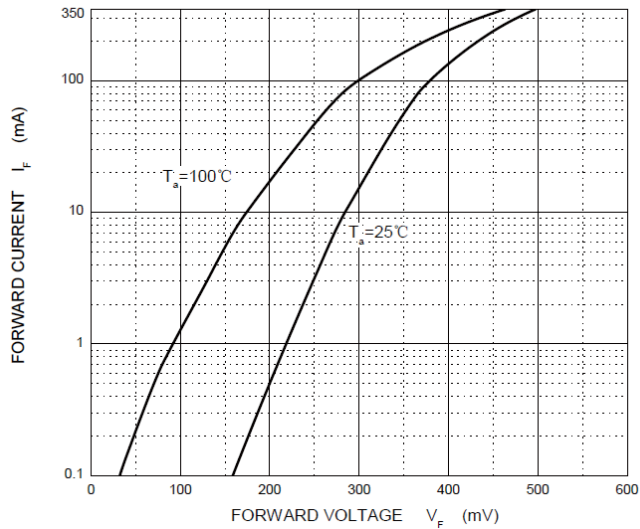
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	V _{BR}	20	-	-	V	I _F =100uA
		30	-	-		
		40	-	-		
Reverse Leakage Current	I _{RM}	-	-	5	uA	V _R =10V
		-	-	5		V _R =20V
		-	-	5		V _R =30V
Forward Voltage	V _F	-	-	0.37	V	I _F =20mA
		-	-	0.6		I _F =200mA
Capacitance Between Terminals	C _T	-	-	50	pF	V _R =0V, f=1MHz
Reverse Recovery Time	T _{RR}	-	10	-	nS	I _F =I _R =200mA. I _{RR} =0.1I _R , R _L =100Ω



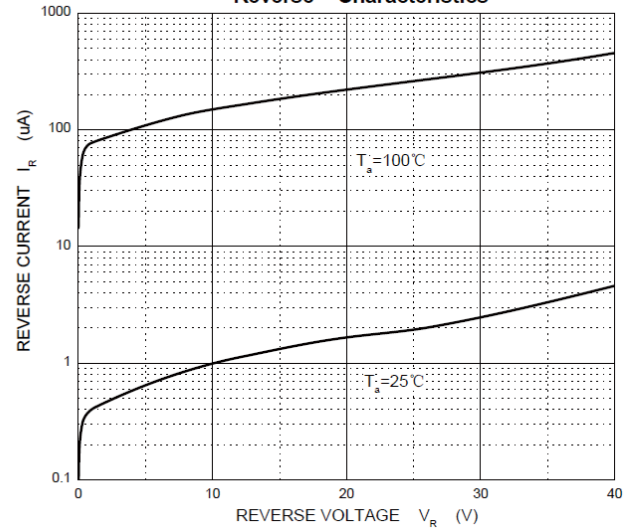
SD103AWS / SD103BWS / SD103CWS

RATINGS AND CHARACTERISTIC CURVES

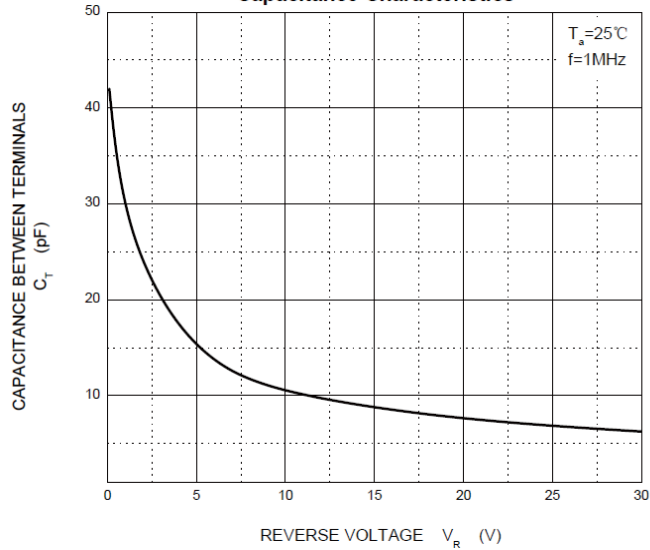
Forward Characteristics



Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

