

**Features**

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Low Voltage Rectification
- Low Forward Voltage Drop
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

**Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 400°C/W Junction to Ambient

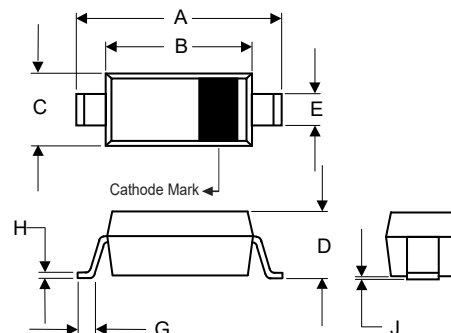
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SMD22WS	SH	20V	14V	20V

**Electrical Characteristics @ 25°C Unless Otherwise Specified**

Average Forward Current	$I_{F(AV)}$	2.0A	
Peak Forward Surge Current	$I_{FSM}$	9A	8.3ms Half Sine
Maximum Instantaneous Forward Voltage	$V_F$	0.45V 0.55V	$I_F=1.0A;$ $I_F=2.0A;$
Reverse Breakdown Voltage	$V_{(BR)}$	20V(min)	$I_R = 1.0mA;$
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	80μA 100μA	$V_R = 10V$ $V_R = 20V$
Typical Junction Capacitance	$C_J$	120pF	Measured at 1.0MHz , $V_R=4.0V$

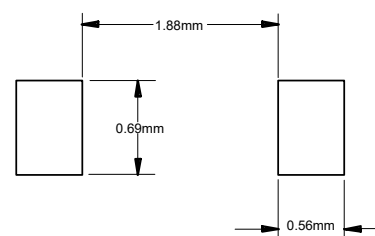
**2 Amp  
Schottky Barrier  
Rectifier  
20 Volts**

**SOD-323**



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.090	0.107	2.30	2.70	
B	0.063	0.071	1.60	1.80	
C	0.045	0.053	1.15	1.35	
D	0.031	0.045	0.80	1.15	
E	0.010	0.016	0.25	0.40	
G	0.004	0.018	0.10	0.45	
H	0.004	0.010	0.10	0.25	
J	-----	0.006	-----	0.15	

**Suggested Solder Pad Layout**



**Curve Characteristics**

Fig. 1 - Typical Instantaneous Forward Characteristics

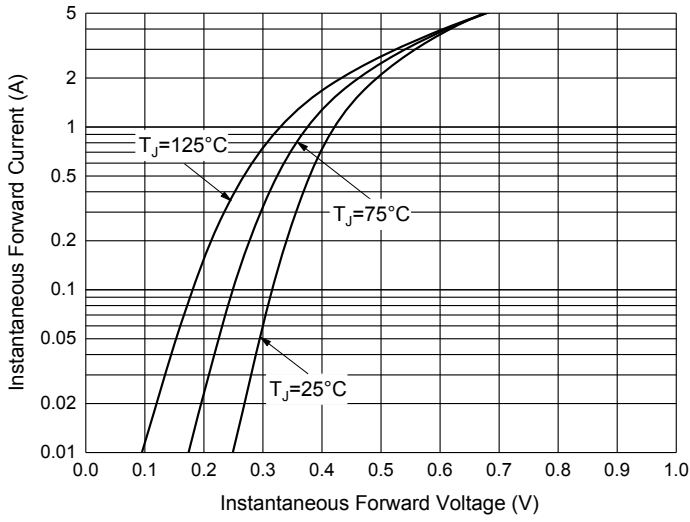


Fig. 2 - Typical Reverse Leakage Characteristics

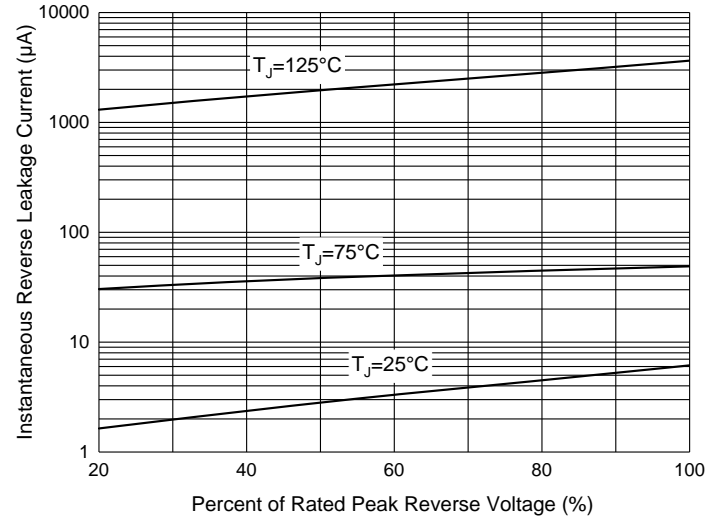
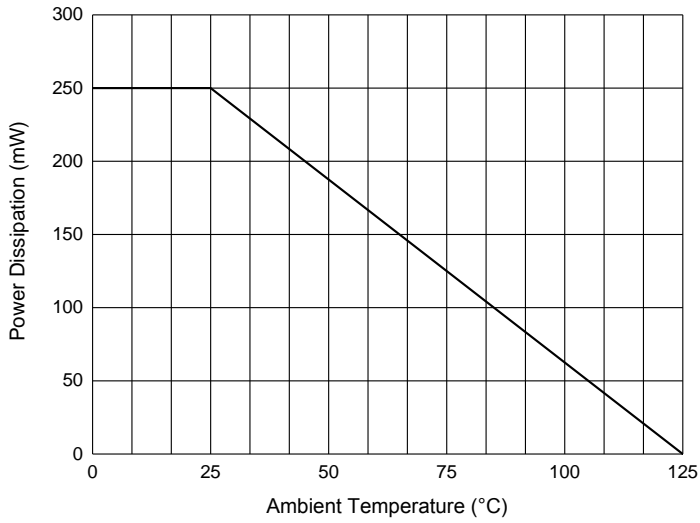


Fig. 3 - Power Derating Curve



## Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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