



DISH DIODES TYPE 20A

**Features**

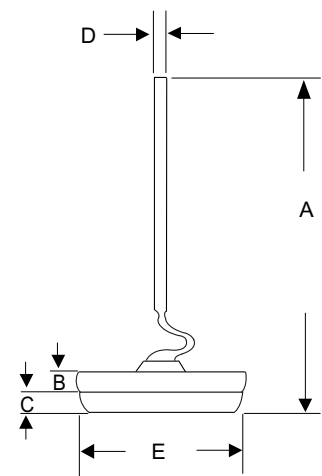
- High Surge Capability
- High Voltage Available
- Designed For A Wide Range of Application
- Leaded Version Available
- Types Up to 400V  $V_{RRM}$

20Amp Rectifier  
50-400 Volts

**Maximum Ratings**

Operating Temperature:  $-65^{\circ}\text{C}$  to  $+175^{\circ}\text{C}$   
Storage Temperature:  $-65^{\circ}\text{C}$  to  $+175^{\circ}\text{C}$

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SG2001S	50V	35V	50V
SG2002S	100V	70V	100V
SG2003S	200V	140V	200V
SG2004S	400V	280V	400V



Polarity  
for Cathode to Case,  
Color Code WHITE

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

Average Forward Current	$I_{F(AV)}$	20A	$T_C = 150^{\circ}\text{C}$
Peak Forward Surge Current	$I_{FSM}$	350A	8.3ms, half sine
Maximum Instantaneous Forward Voltage *	$V_F$	1.10V	$I_{FM} = 20A;$ $T_J = 25^{\circ}\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage	$I_R$	5.0uA 500uA	$T_J = 25^{\circ}\text{C}$ $T_J = 100^{\circ}\text{C}$
Maximum thermal resistance, junction to case	$R_{\theta jc}$	0.8 $^{\circ}\text{C}/\text{W}$	

DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.709	0.787	18.0	20.0	
B	0.039		1.000		
C	0.047		1.200		
D	0.058	0.600	1.480	1.520	
E	0.323	0.339	8.200	8.600	

\*Pulse Test: Pulse Width 300 usec, Duty Cycle 2%



FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

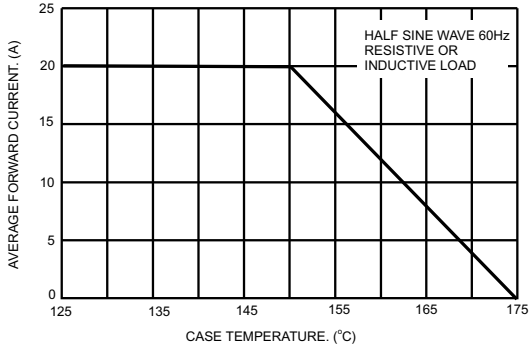


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

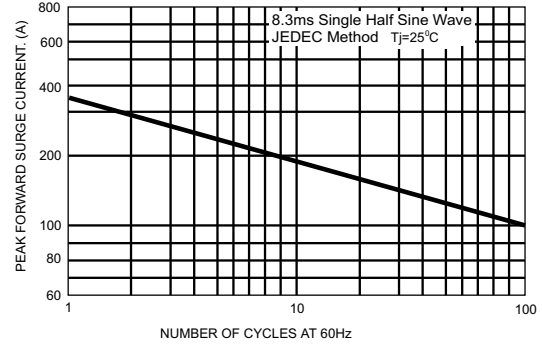


FIG.3- TYPICAL FORWARD CHARACTERISTICS

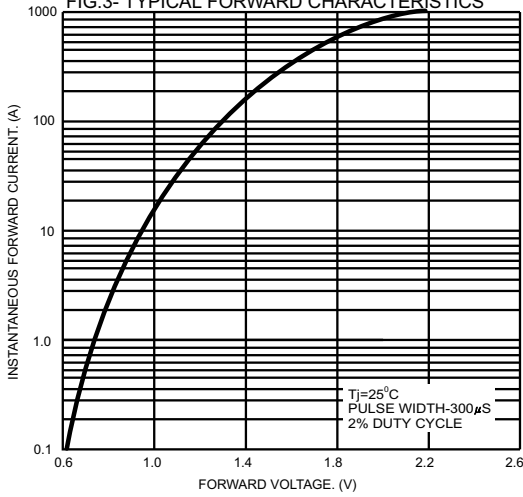


FIG.4- TYPICAL REVERSE CHARACTERISTICS

