



DISH DIODES TYPE 20A

Features

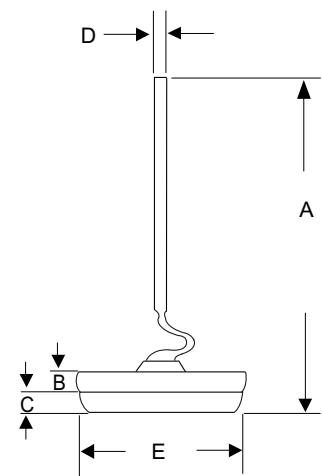
- High Surge Capability
- High Voltage Available
- Designed For A Wide Range of Application
- Leaded Version Available
- Types Up to 400V  $V_{RRM}$

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
SG2001R	50V	35V	50V
SG2002R	100V	70V	100V
SG2003R	200V	140V	200V
SG2004R	400V	280V	400V



↑  
Polarity  
for Anode 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 °C / W	

DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.866	0.945	21.0	22.4	
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

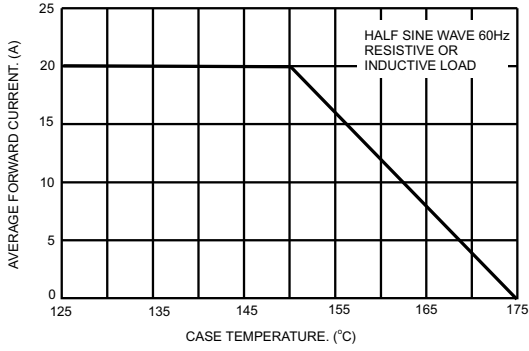


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

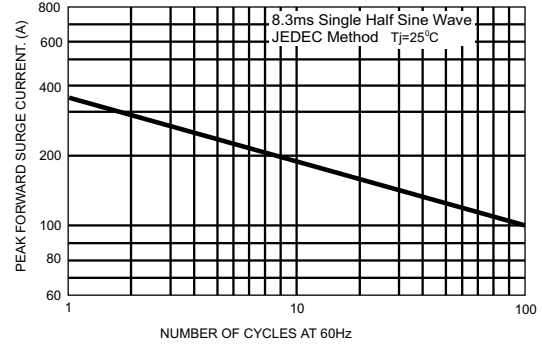


FIG.3- TYPICAL FORWARD CHARACTERISTICS

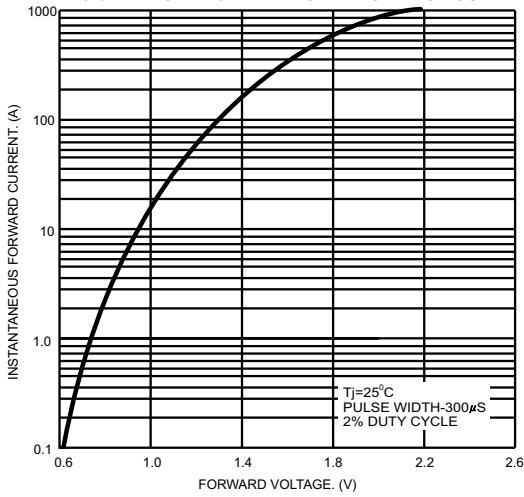


FIG.4- TYPICAL REVERSE CHARACTERISTICS

