



DISH DIODES TYPE 50A

Features

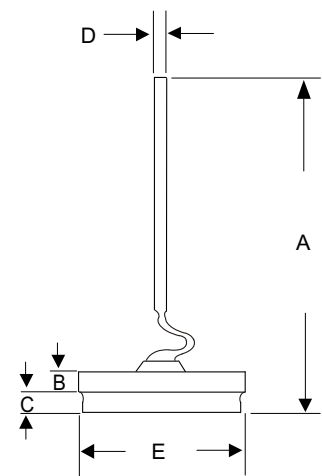
- High Surge Capability
- High Voltage Available
- Designed For A Wide Range of Application
- Leaded Version Available
- Types Up to 400V V_{RRM}

50Amp Rectifier
50-400 Volts

Maximum Ratings

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

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SG5011LR	50V	35V	50V
SG5012LR	100V	70V	100V
SG5013LR	200V	140V	200V
SG5014LR	400V	280V	400V



↑
Polarity
for Anode to Case,
Color Code WHITE

Electrical Characteristics @ 25 °C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	50A	$T_C = 150^{\circ}\text{C}$
Peak Forward Surge Current	I_{FSM}	600A	8.3ms, half sine
Maximum Instantaneous Forward Voltage *	V_F	1.10V	$I_{FM} = 50A;$ $T_J = 25^{\circ}\text{C}$
Maximum DC 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	$R_{\theta jc}$	0.6°C/W	

DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.866	0.945	22.0	24.0	
B	0.039		1.000		
C	0.047		1.200		
D	0.058	0.600	1.480	1.520	
E	0.366	0.382	9.300	9.700	

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



FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

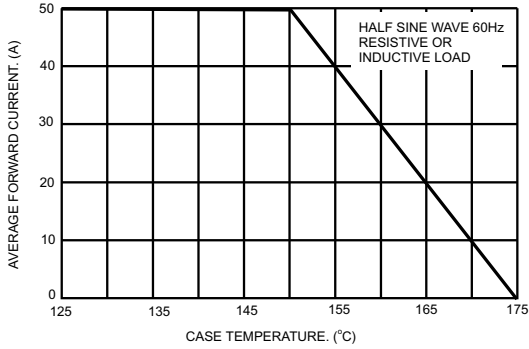


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

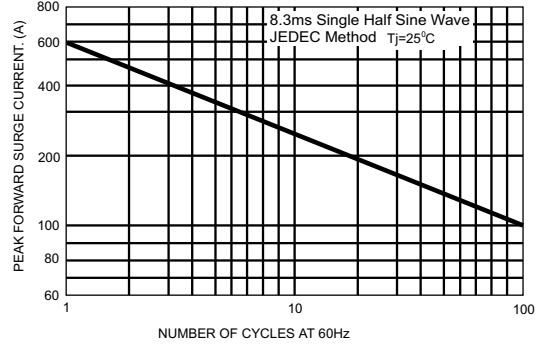


FIG.3- TYPICAL FORWARD CHARACTERISTICS

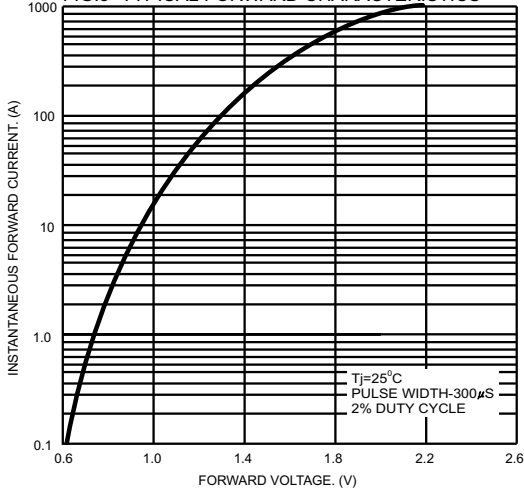


FIG.4- TYPICAL REVERSE CHARACTERISTICS

