



DISH DIODES TYPE 50A

Features

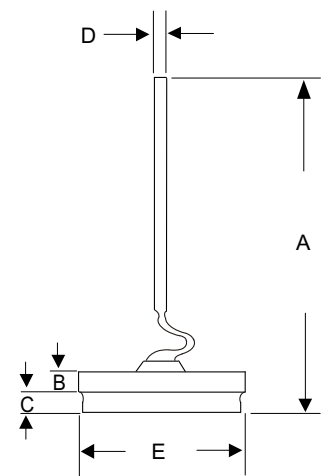
- High Surge Capability
- High Voltage Available
- Designed For A Wide Range of Application
- Leaded Version Available
- Types Up to 400V V_{RRM}

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
SG5011LS	50V	35V	50V
SG5012LS	100V	70V	100V
SG5013LS	200V	140V	200V
SG5014LS	400V	280V	400V



Polarity
for Cathode 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	0.709	0.787	18.00	20.0	
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

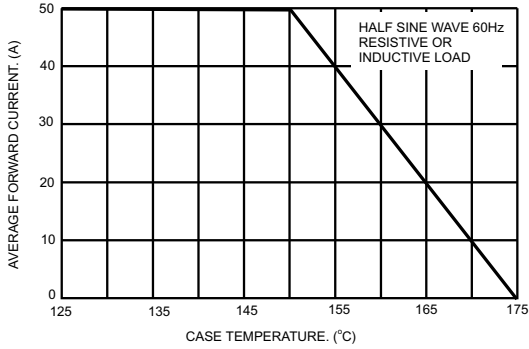


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

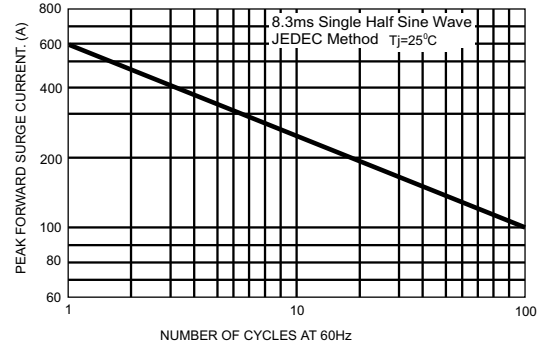


FIG.3- TYPICAL FORWARD CHARACTERISTICS

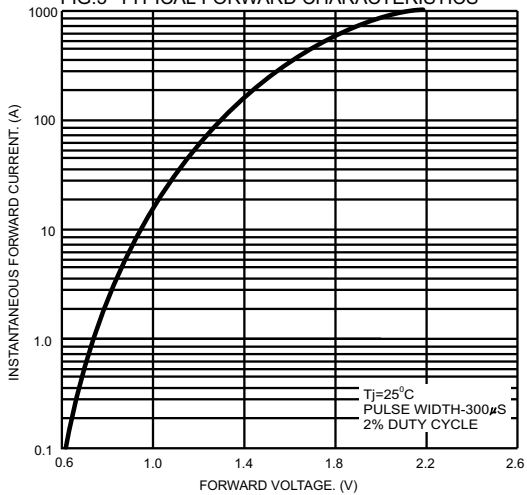


FIG.4- TYPICAL REVERSE CHARACTERISTICS

