



## DISH DIODES TYPE 30A

### Features

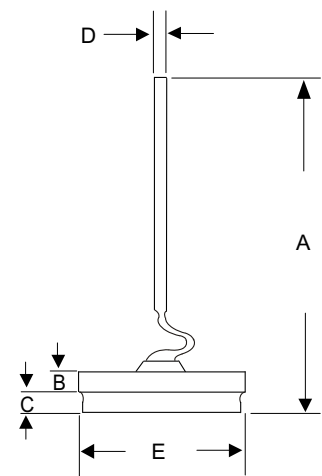
- High Surge Capability
- High Voltage Available
- Designed For A Wide Range of Application
- Leaded Version Available
- Types Up to 400V  $V_{RRM}$

30Amp 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
SG3011LS	50V	35V	50V
SG3012LS	100V	70V	100V
SG3013LS	200V	140V	200V
SG3014LS	400V	280V	400V



Polarity  
for Cathode to Case,  
Color Code WHITE

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

Average Forward Current	$I_{F(AV)}$	30A	$T_C = 150^{\circ}\text{C}$
Peak Forward Surge Current	$I_{FSM}$	450A	8.3ms, half sine
Maximum Instantaneous Forward Voltage *	$V_F$	1.10V	$I_{FM} = 30A;$ $T_J = 25^{\circ}\text{C}$
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

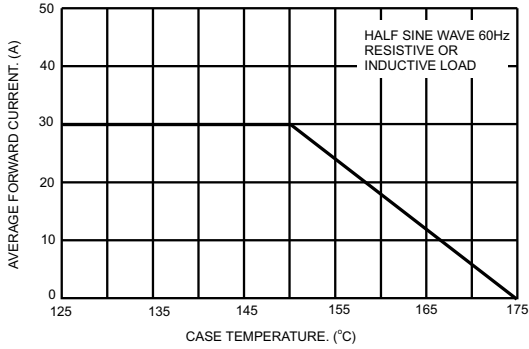


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

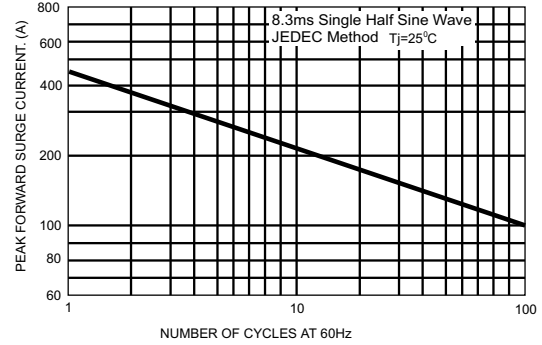


FIG.3- TYPICAL FORWARD CHARACTERISTICS

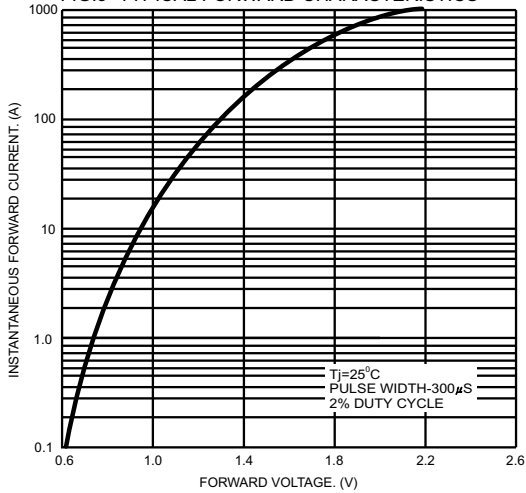


FIG.4- TYPICAL REVERSE CHARACTERISTICS

