

## Features

- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant(Note 2) ("P" Suffix Designates Compliant. See Ordering Information)
- Low Reverse Leakage Current
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

## Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance(Note3): 28°C/W Junction to Lead
- Maximum Thermal Resistance(Note3): 55°C/W Junction to Case
- Maximum Thermal Resistance(Note3): 88°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SS13L-L	SS13L	30V	21V	30V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

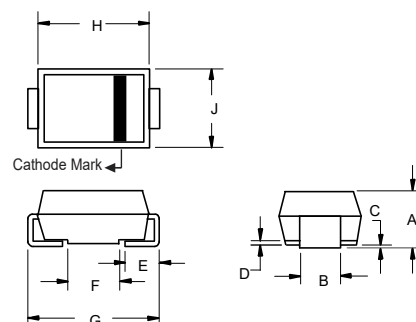
Average Forward Current	$I_{F(AV)}$	1.0A	Fig.1
Peak Forward Surge Current	$I_{FSM}$	40A	8.3ms, Half Sine
Instantaneous Forward Voltage	$V_F$	0.45V(Typ.) 0.50V(Max.)	$I_{FM}=1.0A; T_J=25^\circ C^*$ $I_{FM}=1.0A; T_J=25^\circ C^*$
DC Reverse Current At Rated DC Blocking Voltage	$I_R$	2 $\mu$ A(Typ.) 20 $\mu$ A(Max.)	$T_J=25^\circ C$ $T_J=25^\circ C$

\*Pulse Test: Pulse Width 300  $\mu$ sec, Duty Cycle 2%

- Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.  
2. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.  
3. Mounted on P.C.B. With 0.2" x 0.2" (5.0 mm x 5.0 mm) Copper Pad Areas.

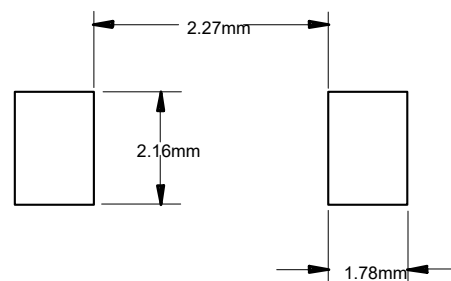
# 1 Amp Schottky Barrier Rectifier 30 Volts

## SMA (DO-214AC)



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.075	0.096	1.90	2.44	
B	0.050	0.064	1.27	1.63	
C	0.002	0.008	0.051	0.203	
D	---	0.020	---	0.51	
E	0.030	0.060	0.76	1.52	
F	0.065	0.091	1.65	2.32	
G	0.189	0.220	4.80	5.59	
H	0.157	0.187	4.00	4.75	
J	0.090	0.115	2.25	2.92	

## SUGGESTED SOLDER PAD LAYOUT



## Curve Characteristics

Fig. 1 - Forward Current Derating Curve

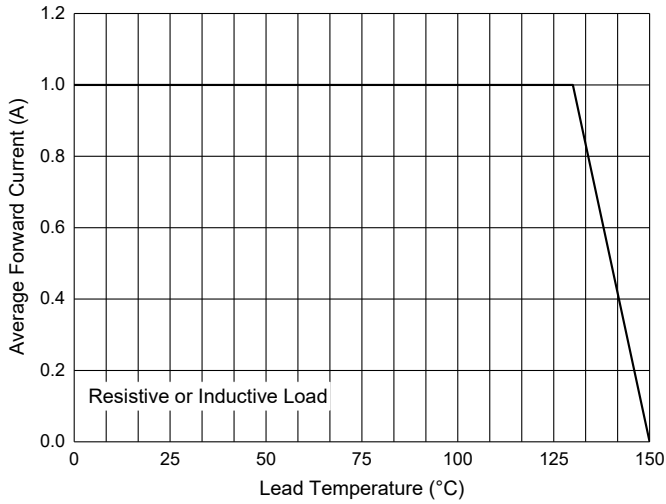


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

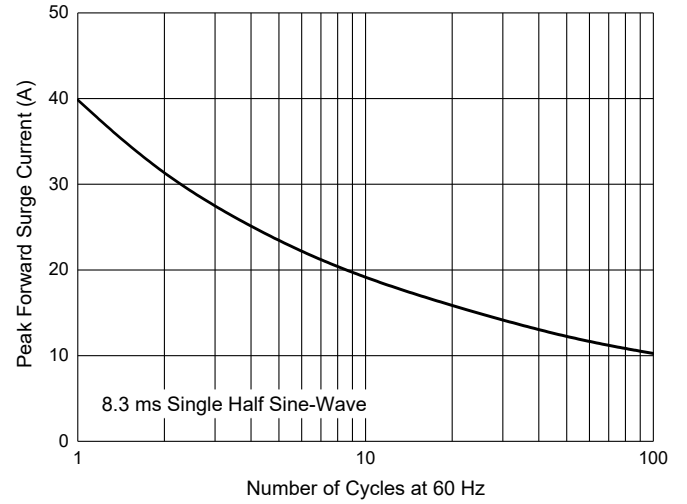


Fig. 3 - Typical Forward Characteristics

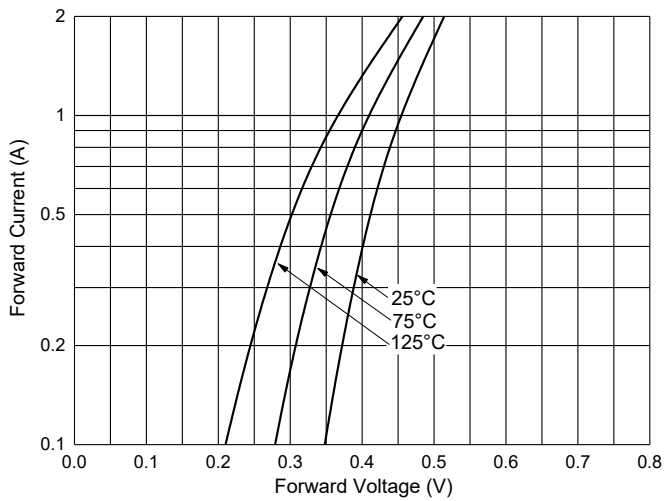
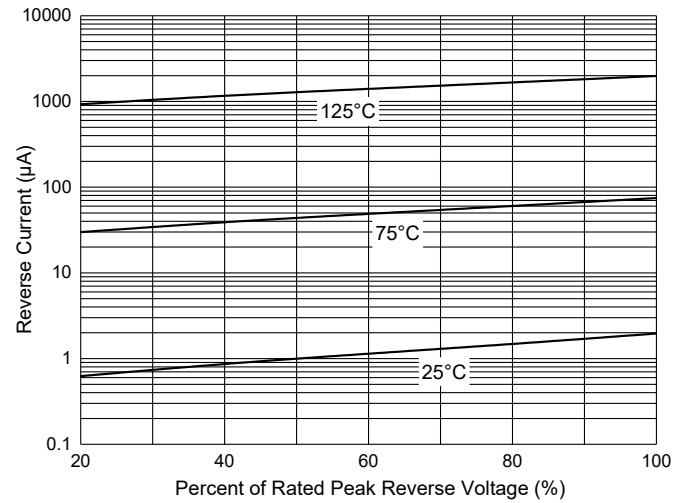


Fig. 4 - Typical Reverse Characteristics



## Ordering Information

Device	Packing
SS13L-LTP	Tape&Reel: 5Kpcs/Reel

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