

#### **Features**

- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant(Note 2) ("P" Suffix Designates Compliant. See Ordering Information)
- High Current Capability with Low Forward Voltage
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- For Surface Mount Applications
- · Easy Pick and Place

# **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +125°C(SK32A-L~SK345A-L)
- Operating Junction Temperature Range: -55°C to +150°C(SK35A-L~SK310A-L)
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 10°C/W Junction to Lead
- Maximum Thermal Resistance: 55°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SK32A-L	SK32A	20V	14V	20V
SK33A-L	SK33A	30V	21V	30V
SK34A-L	SK34A	40V	28V	40V
SK345A-L	SK345A	45V	31.5V	45V
SK35A-L	SK35A	50V	35V	50V
SK36A-L	SK36A	60V	42V	60V
SK38A-L	SK38A	80V	56V	80V
SK310A-L	SK310A	100V	70V	100V

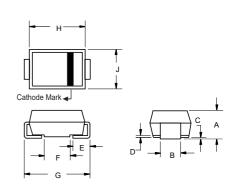
# Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	3.0A	Fig.1
Peak Forward Surge Current	I <sub>FSM</sub>	80A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage SK32A-L~345A-L SK35A-L~36A-L SK38A-L~310A-L	V <sub>F</sub>	0.50V 0.75V 0.85V	I <sub>FM</sub> =3.0A; T <sub>J</sub> =25°C*
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	0.1mA 10mA	T <sub>J</sub> =25°C; T <sub>J</sub> =100°C
Typical Junction Capacitance	CJ	150pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V

<sup>\*</sup>Pulse Test: Pulse Width 200 µsec, Duty Cycle 2% Note

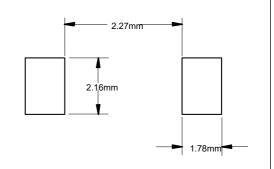
# 3 Amp Schottky Rectifier 20 to 100 Volts

# SMA (DO-214AC)



DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.075	0.096	1.90	2.44		
В	0.050	0.064	1.27	1.63		
С	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		
Н	0.157	0.187	4.00	4.75		
J	0.090	0.115	2.25	2.92		

#### SUGGESTED SOLDER PAD LAYOUT



<sup>1.</sup> Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

<sup>2.</sup> High Temperature Solder Exemption Applied, See EU Directive Annex 7a.



#### **Curve Characteristics**

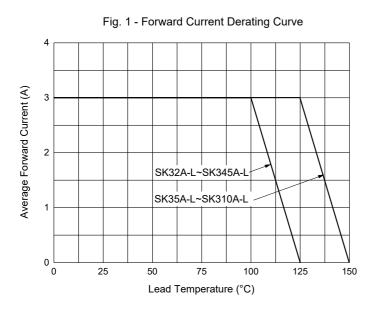


Fig. 3 - Typical Instantaneous Forward Characteristics

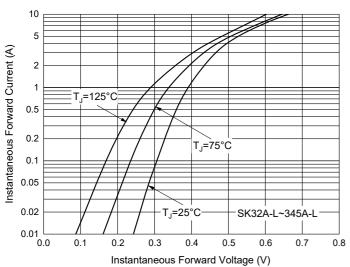


Fig. 5 - Typical Instantaneous Forward Characteristics

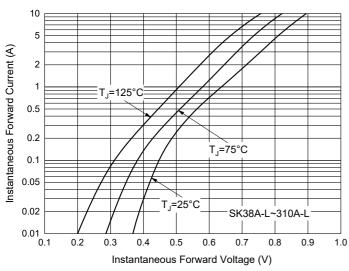


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge

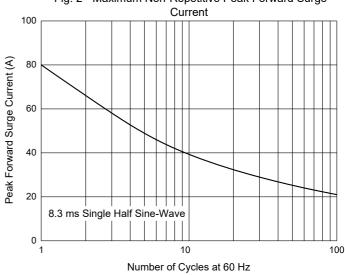


Fig. 4 - Typical Instantaneous Forward Characteristics

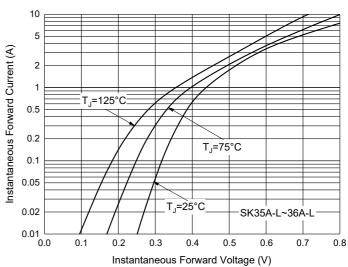
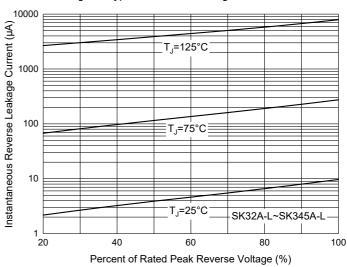


Fig. 6 - Typical Reverse Leakage Characteristics





## **Curve Characteristics**

Fig. 7 - Typical Reverse Leakage Characteristics

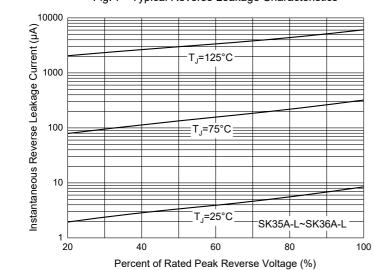
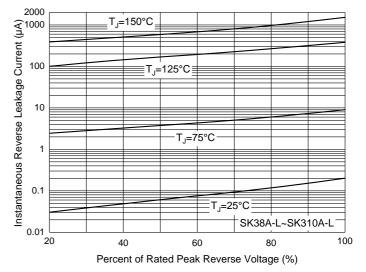


Fig. 8 - Typical Reverse Leakage Characteristics





# **Ordering Information**

Device	Packing	
SK32A-LTP~SK310A-LTP	Tape&Reel: 5Kpcs/Reel	

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