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

3 Amp Schottky Rectifier 20 to 100 Volts

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

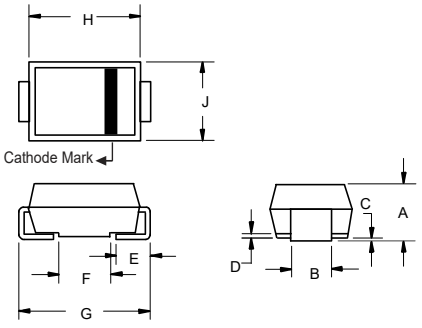
Average Forward Current	$I_{F(AV)}$	3.0A	Fig.1
Peak Forward Surge Current	I_{FSM}	80A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage SK32A-L~345A-L SK35A-L~36A-L SK38A-L~310A-L	V_F	0.50V 0.75V 0.85V	I_{FM}=3.0A; T_J=25ºC*
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	0.1mA 10mA	T_J=25ºC; T_J=100ºC
Typical Junction Capacitance	C_J	250pF	Measured at 1.0MHz, V_R=4.0V

*Pulse Test: Pulse Width 200 μsec, Duty Cycle 2%

Note :

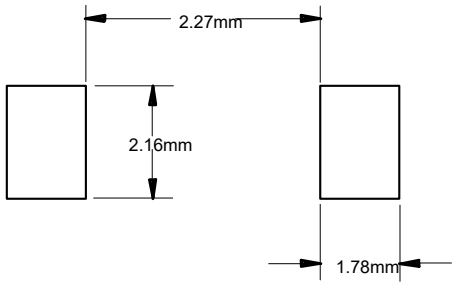
1. Halogen free "Green” products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
2. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.

SMA (DO-214AC)



DIMENSIONS					
DIM	INCHES		MM		NOTE
	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

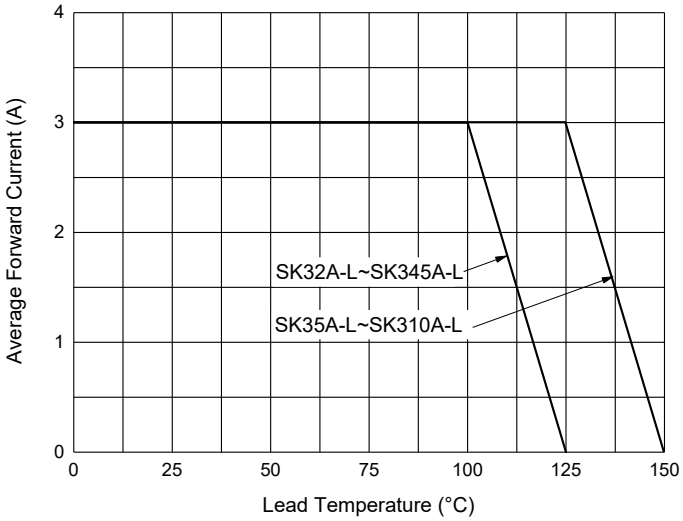


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

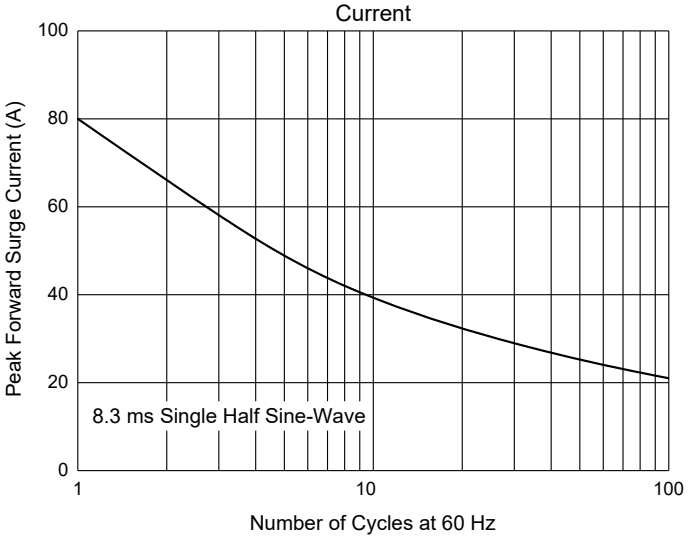


Fig. 3 - Typical Instantaneous Forward Characteristics

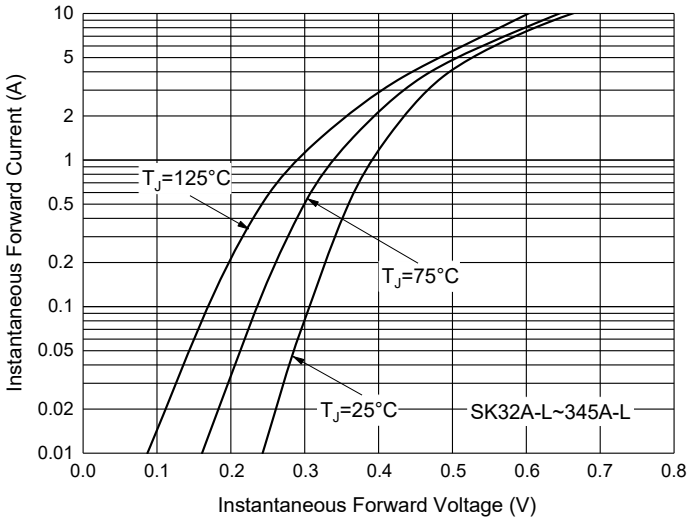


Fig. 4 - Typical Instantaneous Forward Characteristics

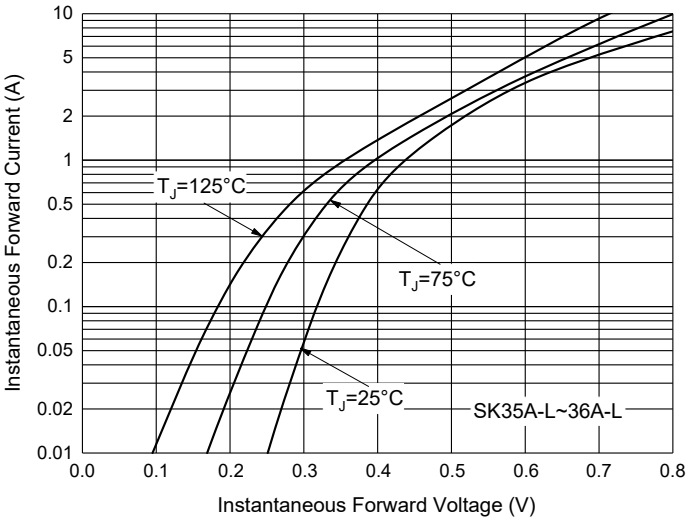


Fig. 5 - Typical Instantaneous Forward Characteristics

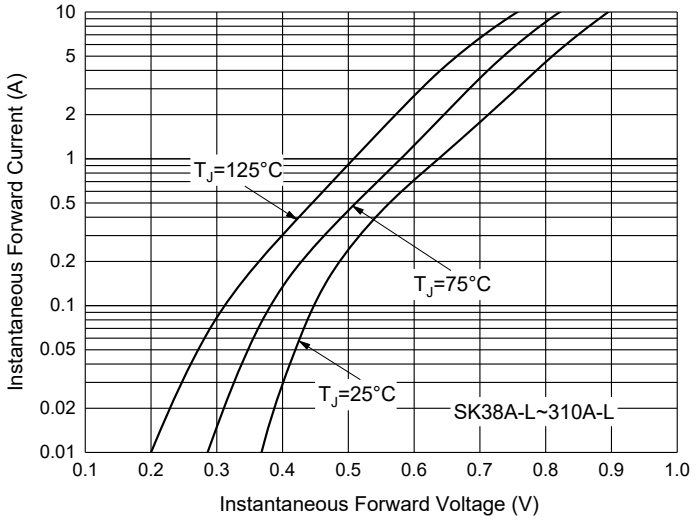
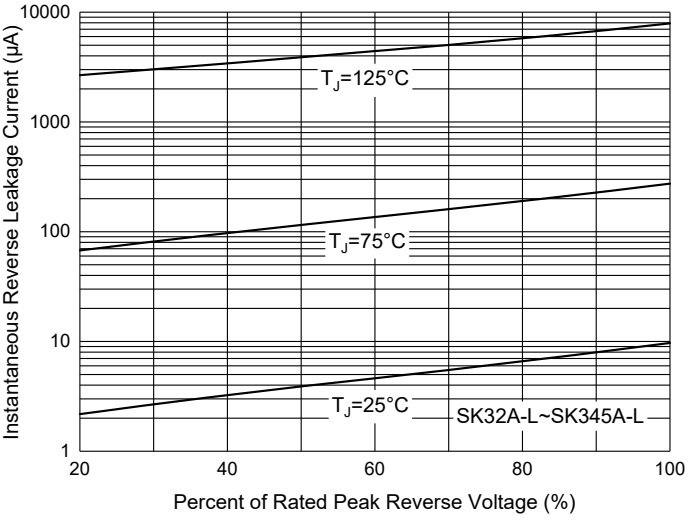


Fig. 6 - Typical Reverse Leakage Characteristics



Curve Characteristics

Fig. 7 - Typical Reverse Leakage Characteristics

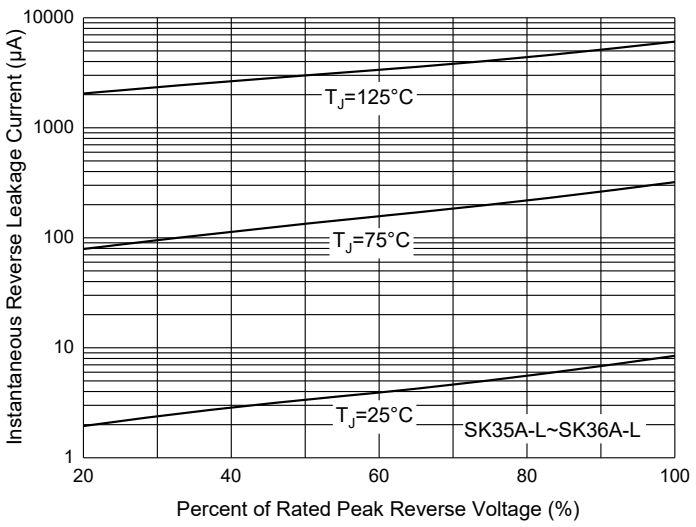
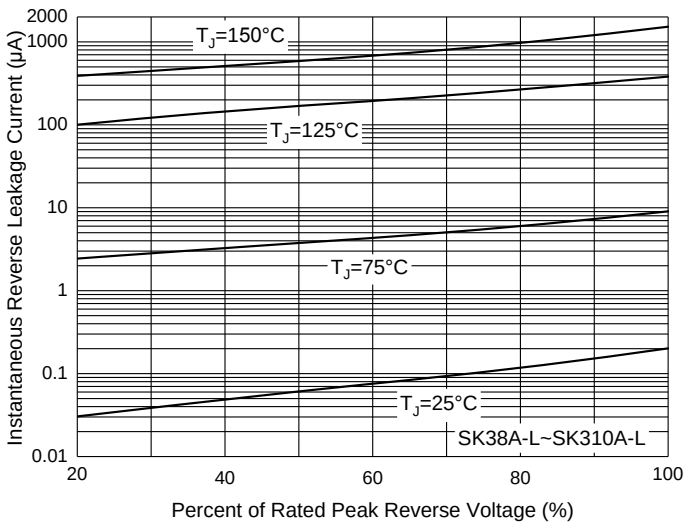


Fig. 8 - Typical Reverse Leakage Characteristics



Ordering Information

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

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