

Features

- Halogen Free. "Green" Device (Note 1)
- For Surface Mount Applications
- High Surge Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (Note 2) ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Value								Unit
		SK32 A-L	SK33 A-L	SK34 A-L	SK345 A-L	SK35 A-L	SK36 A-L	SK38 A-L	SK310 A-L	
Peak Repetitive Reverse Voltage	V_{RRM}									V
Working Peak Reverse Voltage	V_{RWM}	20	30	40	45	50	60	80	100	
DC Blocking Voltage	V_R									
RMS Reverse Voltage	V_{RMS}	14	21	28	31.5	35	42	56	70	V
Average Rectified Forward Current	$I_{F(AV)}$	3								A
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I_{FSM}	80								A
Current Squared Time @ 1ms ≤ t ≤ 8.3ms	I^2t	26.56								A ² s

Marking Code

Part Number	Marking Code
SK32A-L	SK32A
SK33A-L	SK33A
SK34A-L	SK34A
SK345A-L	SK345A
SK35A-L	SK35A
SK36A-L	SK36A
SK38A-L	SK38A
SK310A-L	SK310A

Internal Structure

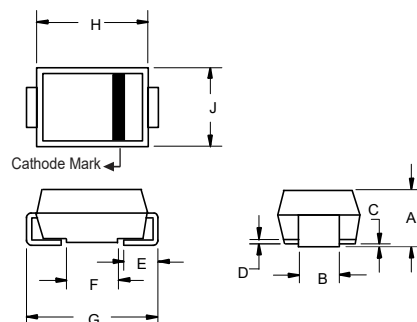
Pin	Description	Simplified Outline	Graphic Symbol
1	Cathode	<p>XXXX = Marking Code</p>	
2	Anode		

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.

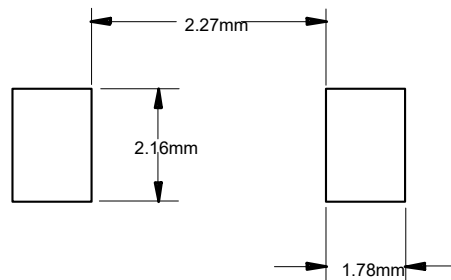
3 Amp Schottky Rectifier 20 to 100 Volts

SMA (DO-214AC)



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



Thermal characteristics

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
T_J	Operating Junction Temperature Range	SK32A-L~SK345A-L	-55		125	°C
T_J	Operating Junction Temperature Range	SK35A-L~SK310A-L	-55		150	°C
T_{stg}	Storage Temperature Range		-55		150	°C
$R_{th(J-L)}$	Thermal Resistance from Junction to Lead	Note 1		20		°C/W
$R_{th(J-A)}$	Thermal Resistance from Junction to Ambient	Note 1		80		°C/W

Note:

1. Mounted on P.C.B. with 8.0 mm x 8.0 mm copper pad areas.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage SK32A-L~SK345A-L SK35A-L~SK36A-L SK38A-L~SK310A-L	V_F	$I_F=3A; T_J=25^{\circ}C$			0.50 0.70 0.85	V
Reverse Current	I_R	at Rated $V_R; T_J=25^{\circ}C$ at Rated $V_R; T_J=100^{\circ}C$			0.1 10	mA
Junction Capacitance SK32A-L~SK345A-L SK35A-L~SK36A-L SK38A-L~SK310A-L	C_J	$V_R=4V; f=1MHz; T_J=25^{\circ}C$		150 130 95		pF

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

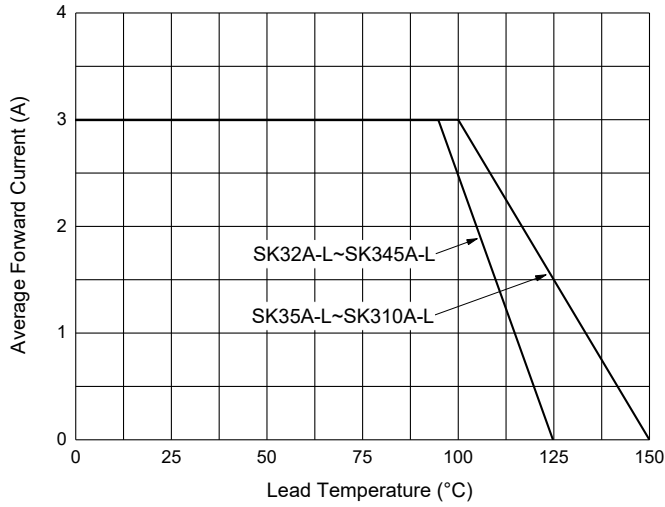


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

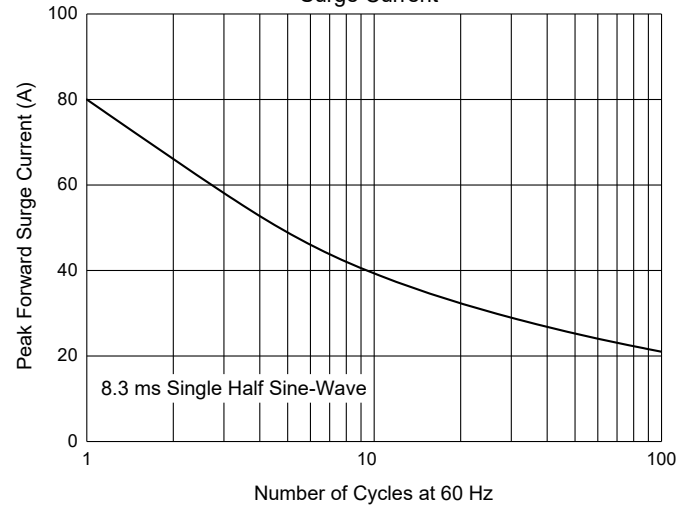


Fig. 3 - Typical Forward Characteristics

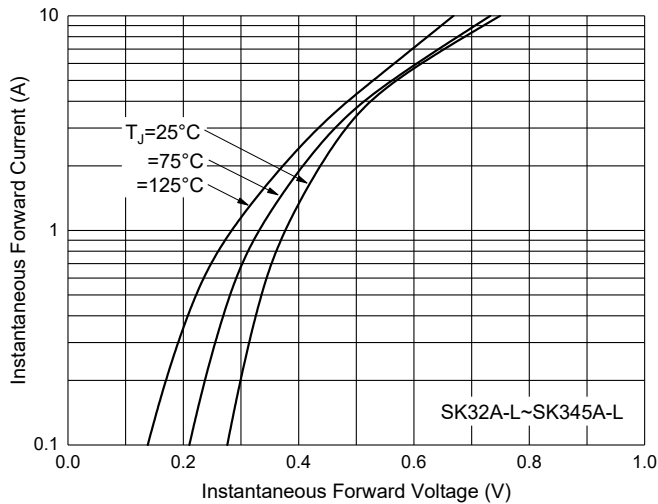


Fig. 4 - Typical Forward Characteristics

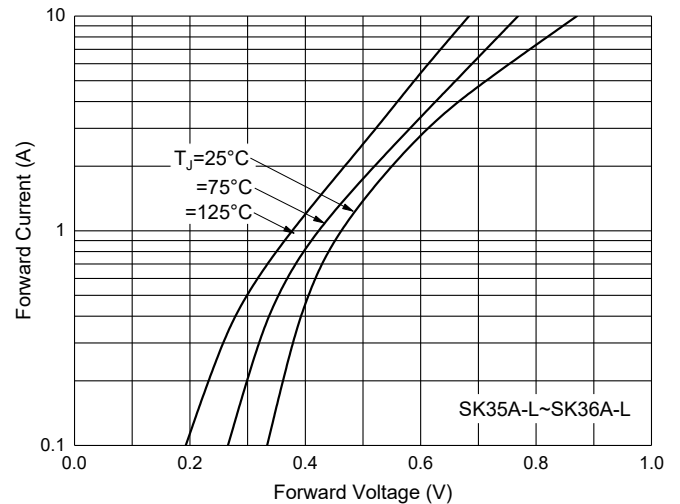


Fig. 5 - Typical Forward Characteristics

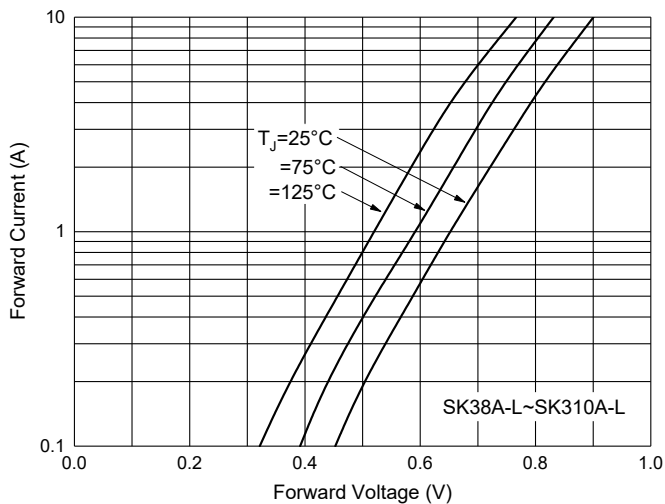
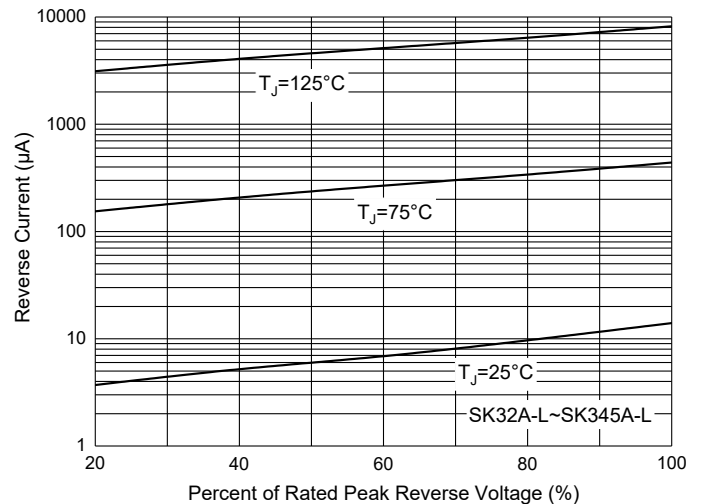


Fig. 6 - Typical Reverse Leakage Characteristics



Curve Characteristics

Fig. 7 - Typical Reverse Leakage Characteristics

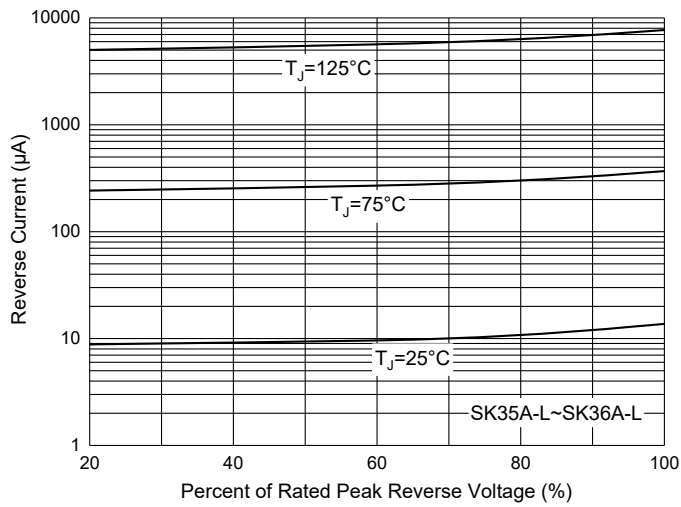


Fig. 8 - Typical Reverse Leakage Characteristics

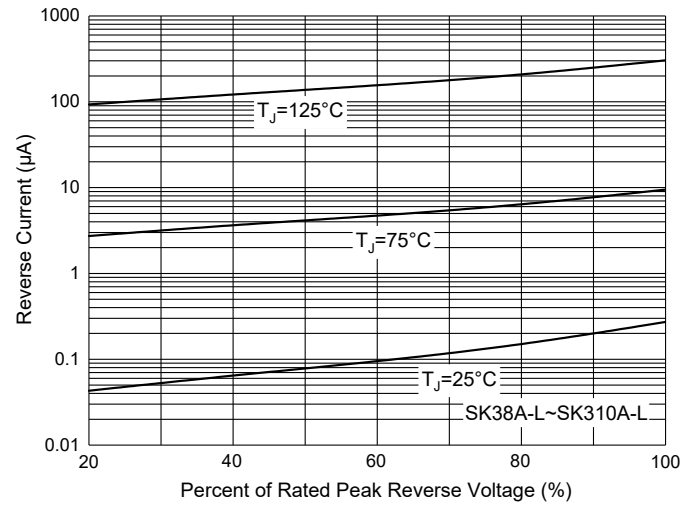
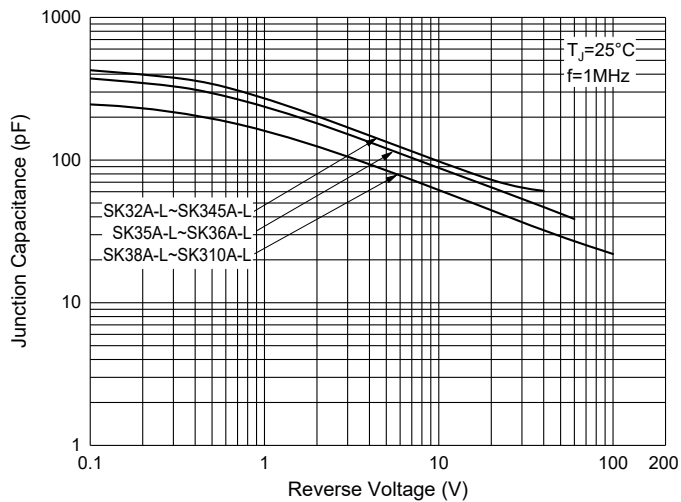


Fig. 9 - Typical Capacitance Characteristics



Ordering Information

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

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