

Features

- Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- High Surge Capability with Low Forward Voltage
- 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
		SK34A HE3-L	SK36A HE3-L	SK310A HE3-L	SK3150A HE3-L	SK3200A HE3-L	
Peak Repetitive Reverse Voltage	V_{RRM}	40	60	100	150	200	V
Working Peak Reverse Voltage	V_{RWM}						
DC Blocking Voltage	V_R						
RMS Reverse Voltage	V_{RMS}	28	42	70	105	140	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
SK34AHE3-L	SK34A
SK36AHE3-L	SK36A
SK310AHE3-L	SK310A
SK3150AHE3-L	SK3150A
SK3200AHE3-L	SK3200A

Internal Structure

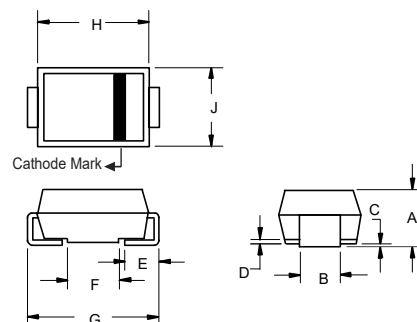
Pin	Description	Simplified Outline	Graphic Symbol
1	Cathode	 XXXX = Marking Code YYWW = Date Code	
2	Anode		

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.

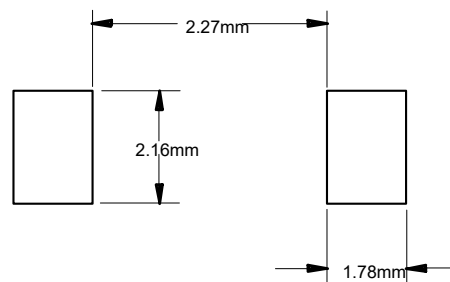
3 Amp Surface Mount Schottky Rectifier 40 to 200 Volts

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	SK34AHE3-L ~ SK36AHE3-L	-55		150	°C
T_{stg}	Storage Temperature Range		-55		150	°C
T_J	Operating Junction Temperature Range	SK310AHE3-L ~ SK3200AHE3-L	-55		175	°C
T_{stg}	Storage Temperature Range		-55		175	°C
$R_{th(J-L)}$	Thermal Resistance from Junction to Lead	Note 1		25		°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 0.2" x 0.2" (5.0 mm x 5.0 mm) copper.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage SK34AHE3-L SK36AHE3-L SK310AHE3-L SK3150AHE3-L ~ SK3200AHE3-L	V_F	$I_F=3A; T_J=25^{\circ}C$			0.50 0.70 0.80 0.90	V
Reverse Current SK34AHE3-L ~ SK36AHE3-L SK310AHE3-L ~ SK3200AHE3-L	I_R	at Rated $V_R; T_J=25^{\circ}C$ at Rated $V_R; T_J=100^{\circ}C$ at Rated $V_R; T_J=25^{\circ}C$ at Rated $V_R; T_J=125^{\circ}C$			0.1 10 0.001 0.15	mA
Junction Capacitance SK34AHE3-L SK36AHE3-L SK310AHE3-L SK3150AHE3-L ~ SK3200AHE3-L	C_J	$V_R=4V; f=1MHz; T_J=25^{\circ}C$		150 135 95 65		pF

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

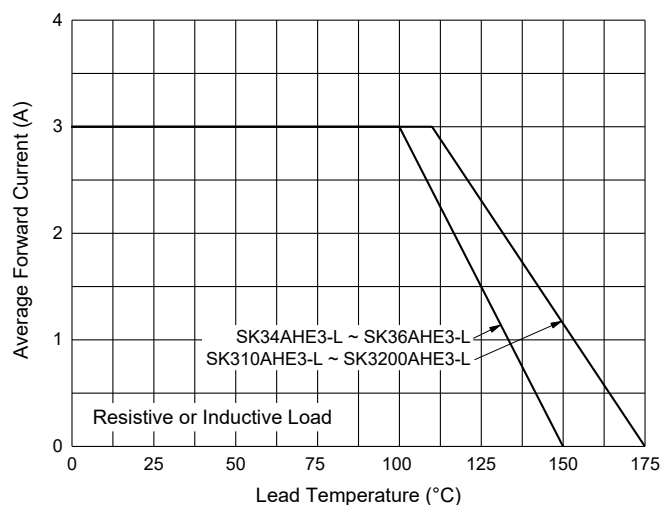


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

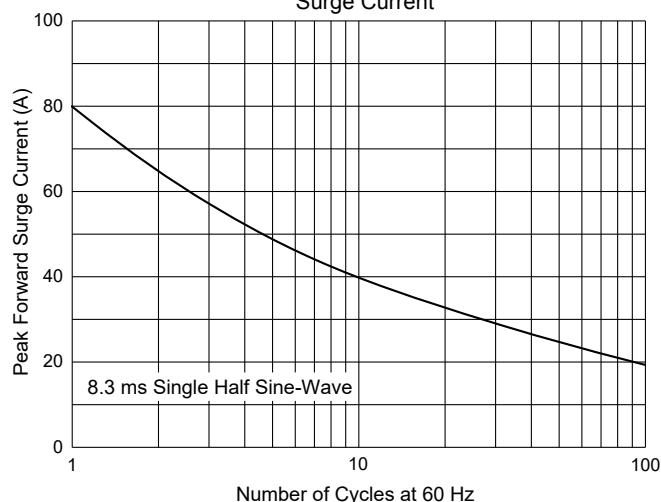


Fig. 3 - Typical Forward Characteristics

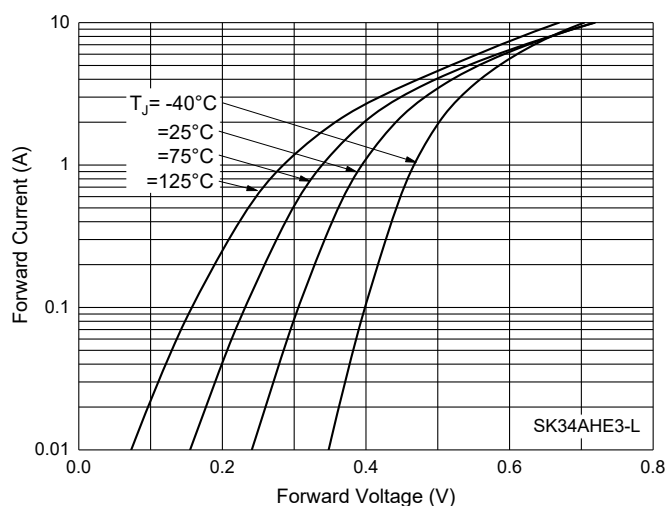


Fig. 4 - Typical Reverse Leakage Characteristics

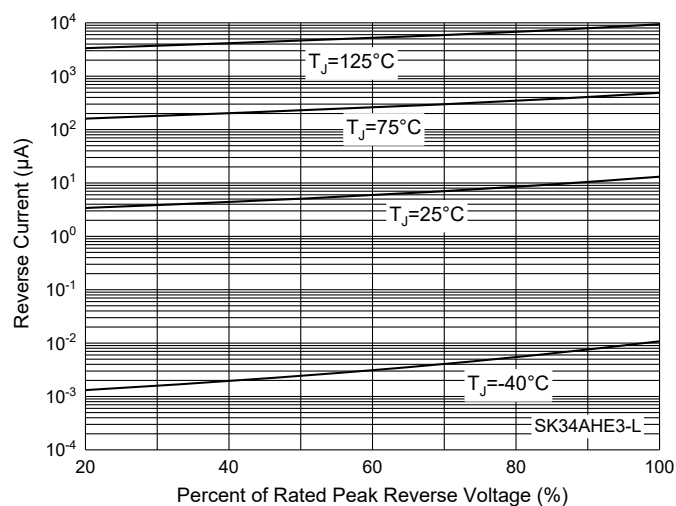


Fig. 5 - Typical Forward Characteristics

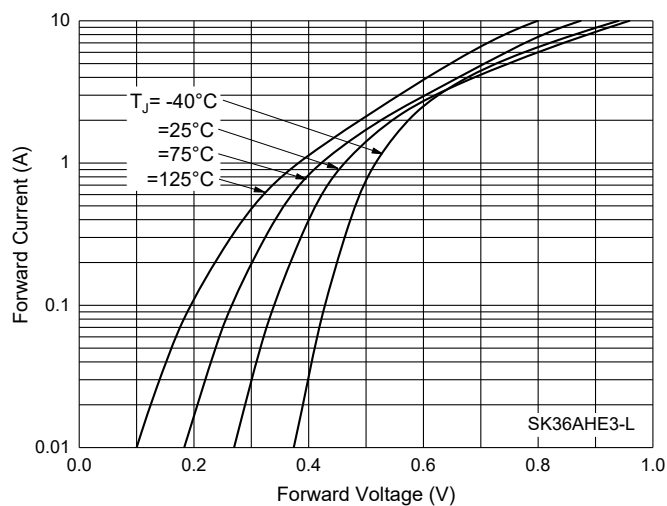
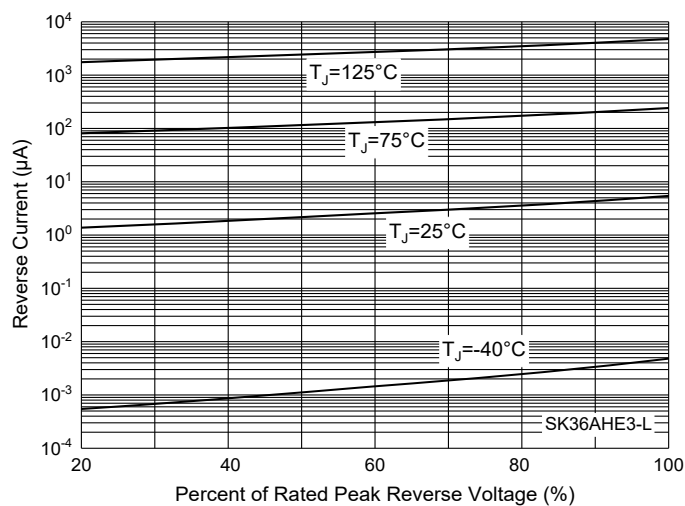


Fig. 6 - Typical Reverse Leakage Characteristics



Curve Characteristics

Fig. 7 - Typical Forward Characteristics

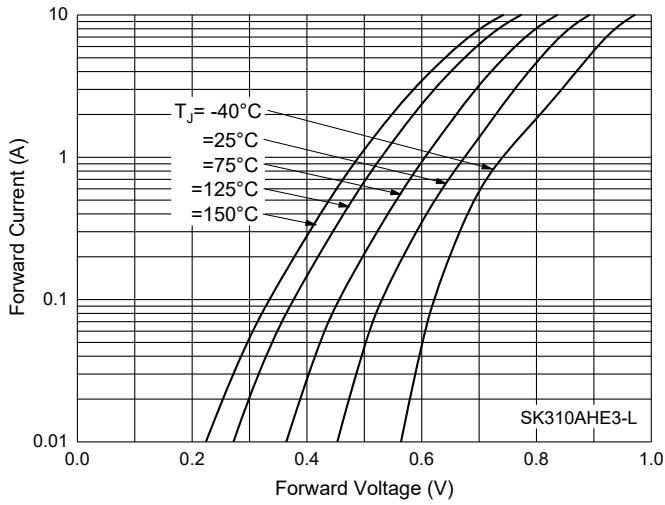


Fig. 8 - Typical Reverse Leakage Characteristics

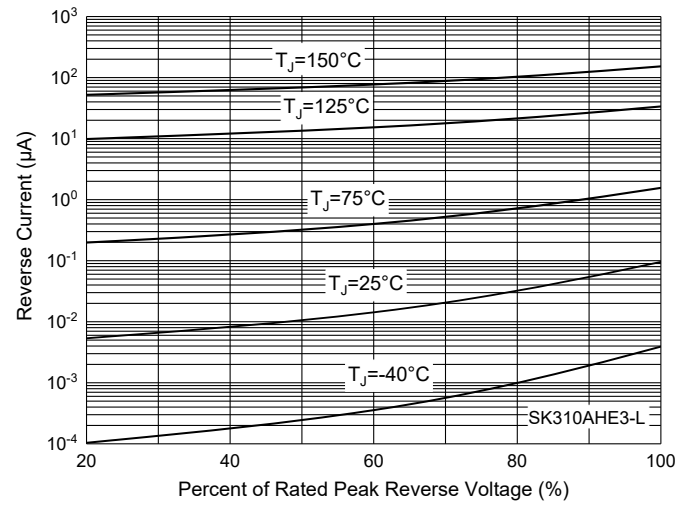


Fig. 9 - Typical Forward Characteristics

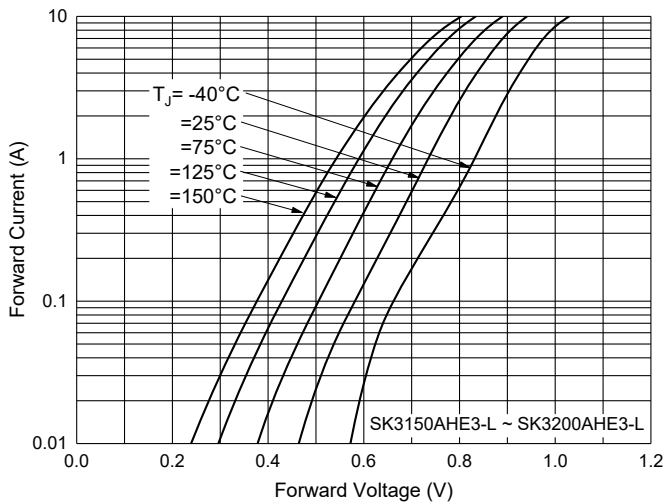


Fig. 10 - Typical Reverse Leakage Characteristics

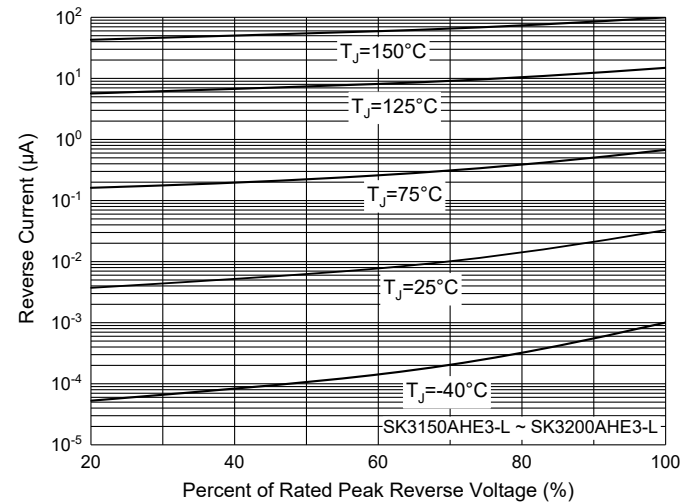
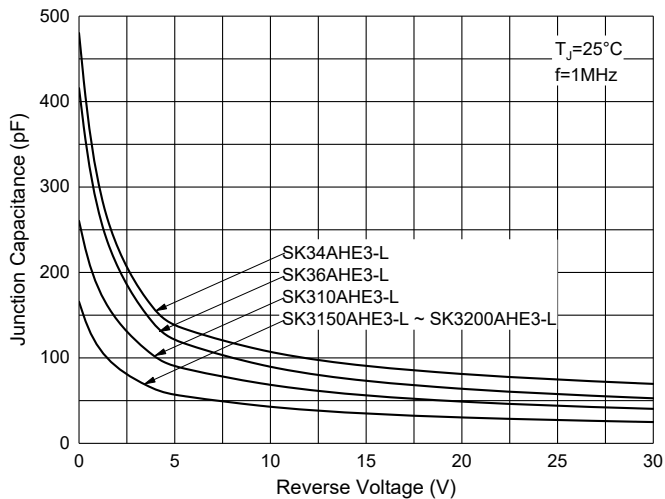


Fig. 11 - Capacitance Characteristics



Ordering Information

Device	Packing
SK34AHE3-LTP ~ SK3200AHE3-LTP	Tape&Reel:5Kpcs/Reel

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