

Features

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

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C(SK34BFL)
- Operating Junction Temperature Range: -55°C to +150°C(SK36BFL~SK320BFL)
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 58°C/W Junction to Ambient(Note 3)
- Typical Thermal Resistance: 20°C/W Junction to Lead(Note 3)
- Typical Thermal Resistance: 15°C/W Junction to Case(Note 3)

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SK34BFL	SK34	40V	28V	40V
SK36BFL	SK36	60V	42V	60V
SK310BFL	SK310	100V	70V	100V
SK320BFL	SK320	200V	140V	200V

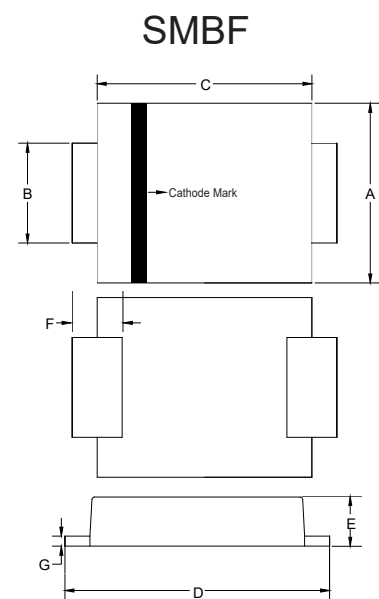
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	3.0A	See Fig. 1
Peak Forward Surge Current	I_{FSM}	70A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage	V_F	SK34BFL 0.50V SK36BFL 0.70V SK310BFL 0.85V SK320BFL 0.90V	$I_{FM}=3.0A;$ $T_J=25°C^*$
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	SK34BFL~SK36BFL 0.1mA SK310BFL~SK320BFL 20mA SK310BFL~SK320BFL 0.01mA SK320BFL 5mA	$T_J=25°C$ $T_J=100°C$ $T_J=25°C$ $T_J=125°C$

Note :

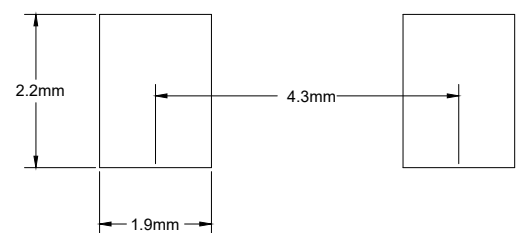
1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
2. High Temperature Solder Exemption Applied, See EU Directive Annex Notes 7a.
3. Device mounted on P.C.B. with 0.6" x 0.6" (16 mm x 16 mm) copper pad areas.

**3 Amp
Schottky Barrier
Rectifier
40V to 200V**



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.134	0.150	3.40	3.80	
B	0.075	0.083	1.90	2.10	
C	0.163	0.175	4.15	4.45	
D	0.201	0.220	5.10	5.60	
E	0.041	0.061	1.05	1.55	
F	0.028	0.053	0.70	1.35	
G	0.006	0.010	0.15	0.25	

Suggested Solder Pad Layout



Curve Characteristics

Fig. 1 - Forward Current Derating Curve

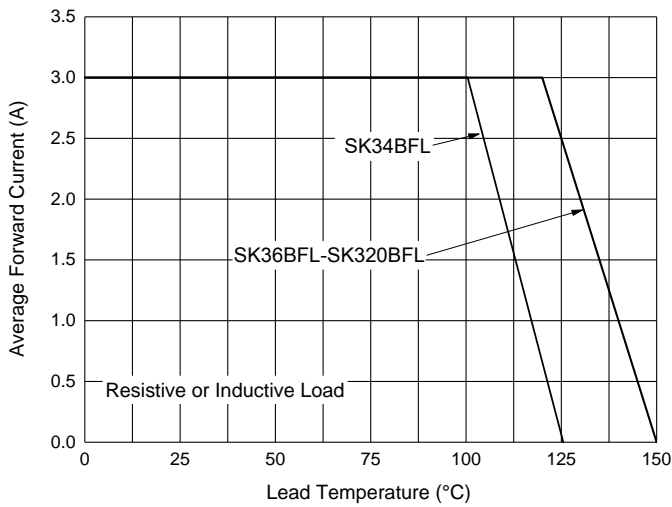


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

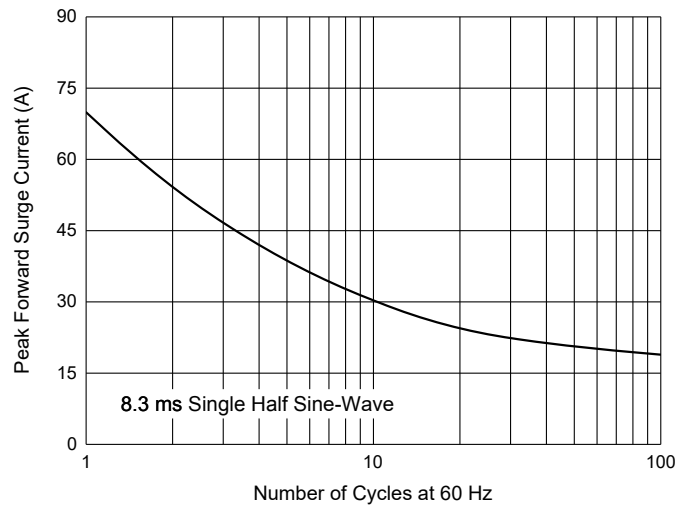


Fig. 3 - Typical Instantaneous Forward Characteristics

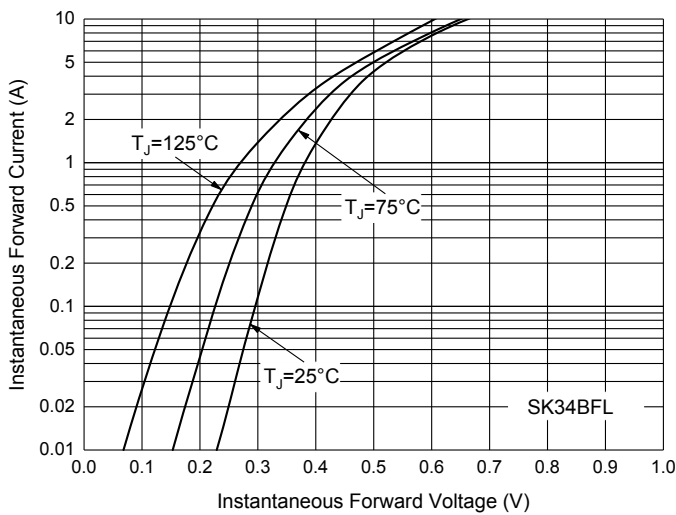


Fig. 4 - Typical Instantaneous Forward Characteristics

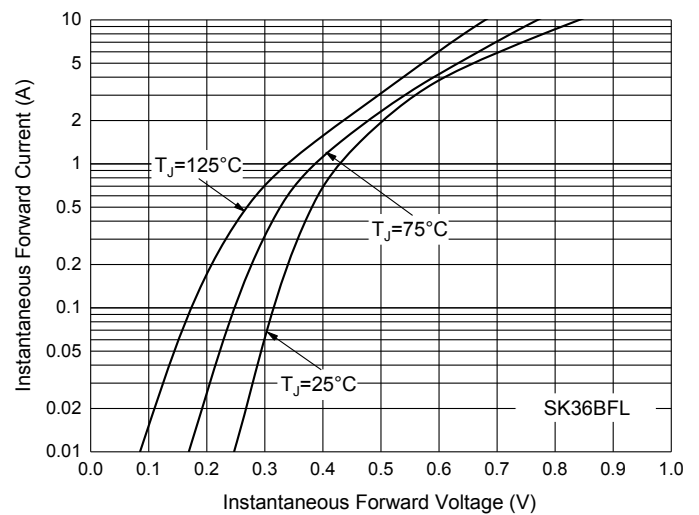


Fig. 5 - Typical Instantaneous Forward Characteristics

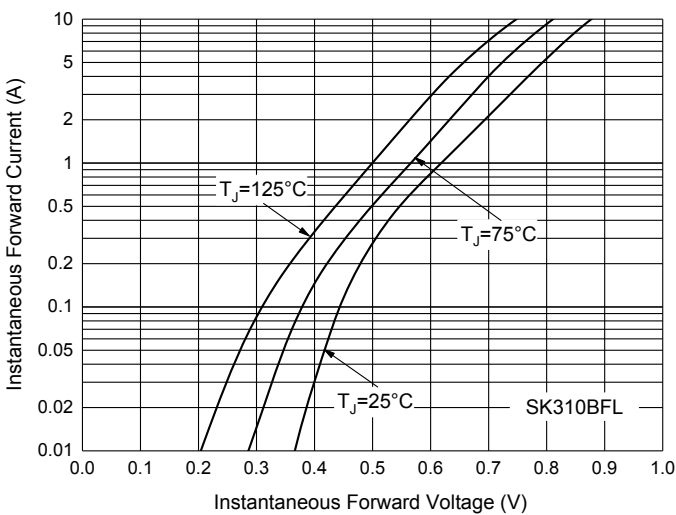
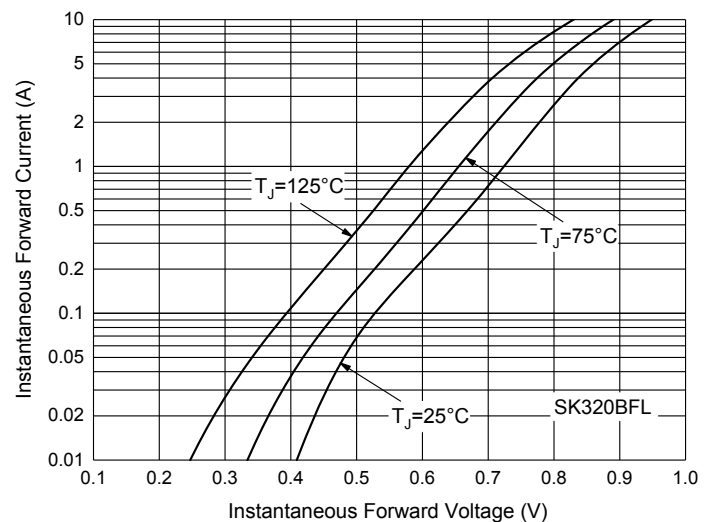


Fig. 6 - Typical Instantaneous Forward Characteristics



Curve Characteristics

Fig. 7 - Typical Reverse Leakage Characteristics

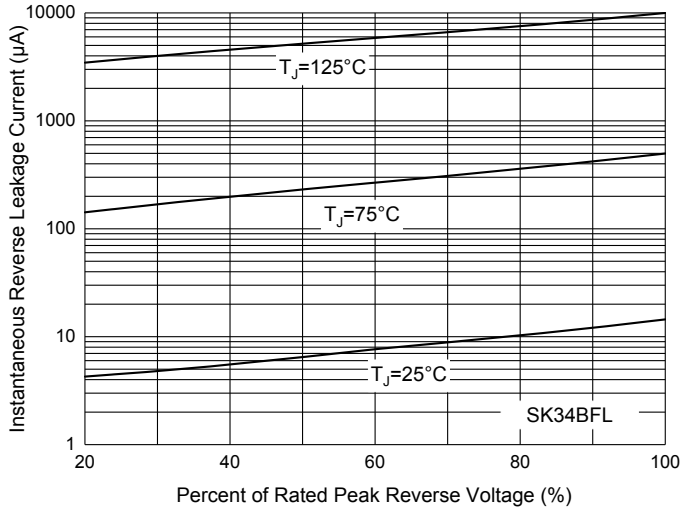


Fig. 8 - Typical Reverse Leakage Characteristics

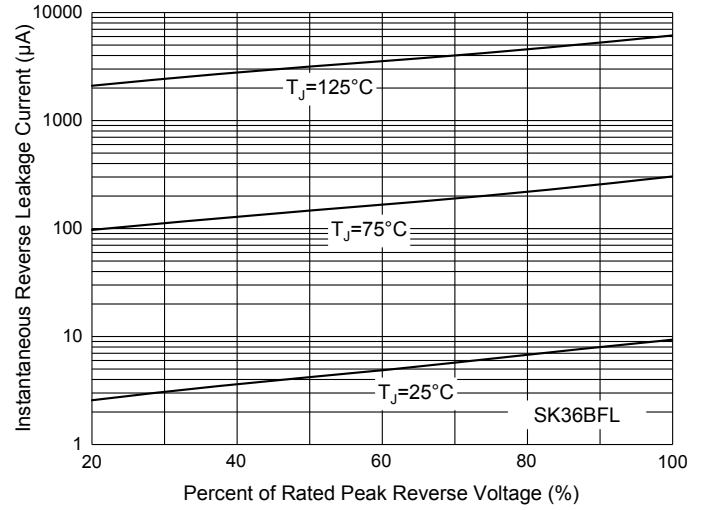


Fig. 9 - Typical Reverse Leakage Characteristics

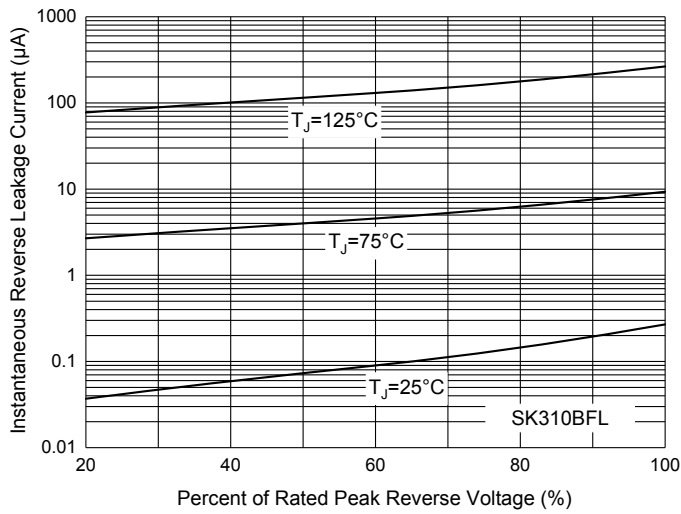
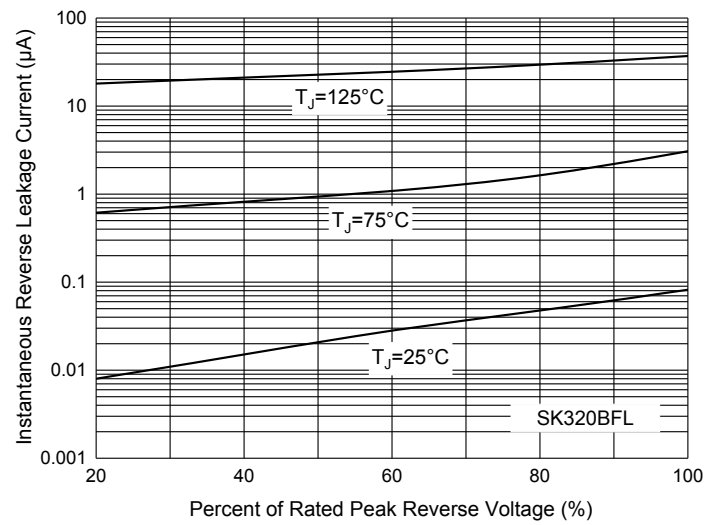


Fig. 10 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
SK34BFL-TP ~ SK320BFL-TP	Tape&Reel: 5Kpcs

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