

Features

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

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C(SK22-L~SK24-L)
- Operating Junction Temperature Range: -55°C to +150°C(SK26-L~SK220-L)
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 71°C/W Junction to Ambient(Note 3)
- Thermal Resistance: 15°C/W Junction to Lead(Note 3)

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SK22-L	SK22	20V	14V	20V
SK23-L	SK23	30V	21V	30V
SK24-L	SK24	40V	28V	40V
SK25-L	SK25	50V	35V	50V
SK26-L	SK26	60V	42V	60V
SK28-L	SK28	80V	56V	80V
SK210-L	SK210	100V	70V	100V
SK2150-L	SK2150	150V	105V	150V
SK220-L	SK220	200V	140V	200V

Electrical Characteristics @ 25°C Unless Otherwise Specified

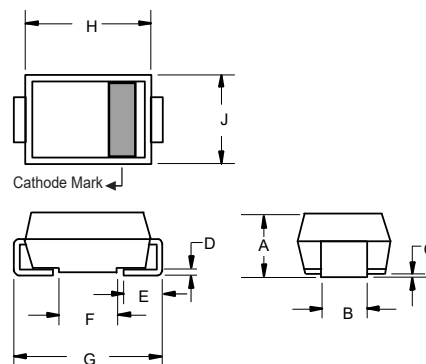
Average Forward Current	$I_{F(AV)}$	2.0A	$T_L=105^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	50A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	SK22-L~SK24-L SK25-L~SK26-L SK28-L~SK210-L SK2150-L~SK220-L	$I_{FM}=2.0A;$ $T_J=25^\circ\text{C}^*$
		0.50V	
		0.70V	
		0.85V	
	0.90V		
Maximum Reverse Current at VR	I_R	SK22-L~SK26-L SK28-L~SK210-L SK2150-L~SK220-L	$T_J=25^\circ\text{C};$
		100µA	
		50µA	
		10µA	
Typical Junction Capacitance	C_J	SK22-L~SK24-L SK25-L~SK26-L SK28-L~SK210-L SK2150-L~SK220-L	Measured at 1.0MHz $V_R=4.0V$
		130pF	
		90pF	
		70pF	
		40pF	

*Pulse test: Pulse width 300 usec, Duty cycle 2%

1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7a.
2. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
3. Mounted on P.C.B. with 0.3" x 0.3" (8.0 mm x 8.0 mm) copper pad areas.

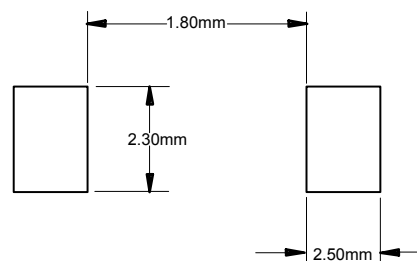
2 Amp Schottky Rectifier 20 to 200 Volts

DO-214AA (SMB) (LEAD FRAME)



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.079	0.103	2.00	2.62	
B	0.075	0.087	1.91	2.21	
C	0.002	0.008	0.05	0.20	
D	0.006	0.012	0.15	0.31	
E	0.030	0.060	0.76	1.52	
F	0.065	0.091	1.65	2.32	
G	0.200	0.220	5.08	5.59	
H	0.160	0.191	4.06	4.85	
J	0.130	0.155	3.30	3.94	

Suggested Solder Pad Layout



Curve Characteristics

Fig. 1 - Forward Current Derating Curve

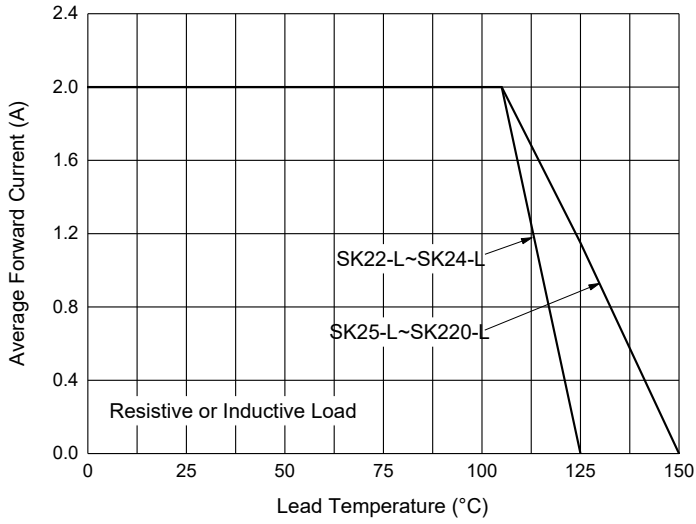


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

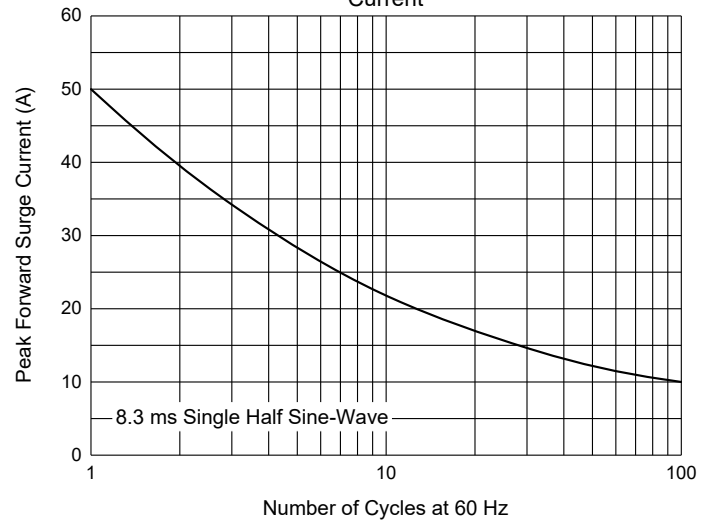


Fig. 3 - Typical Instantaneous Forward Characteristics

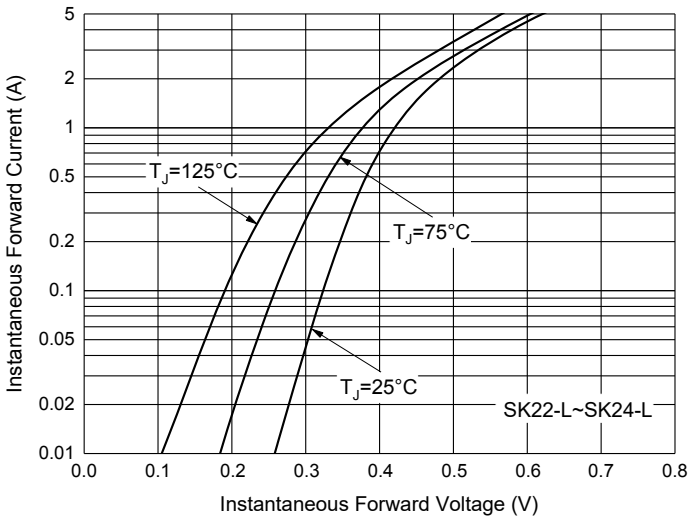


Fig. 4 - Typical Instantaneous Forward Characteristics

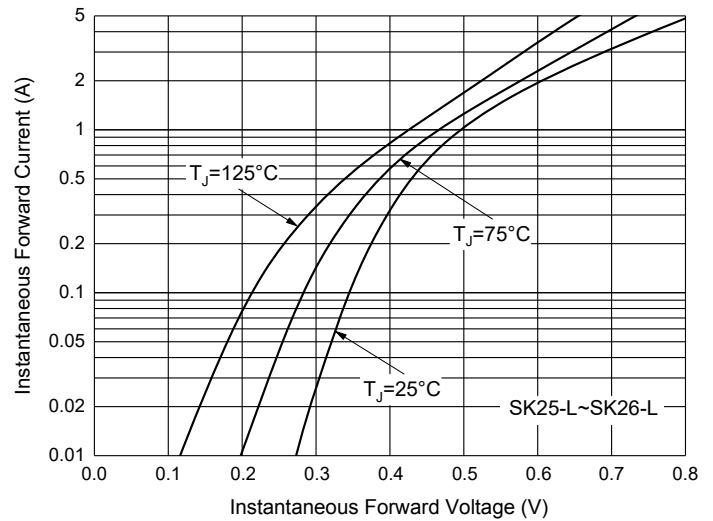


Fig. 5 - Typical Instantaneous Forward Characteristics

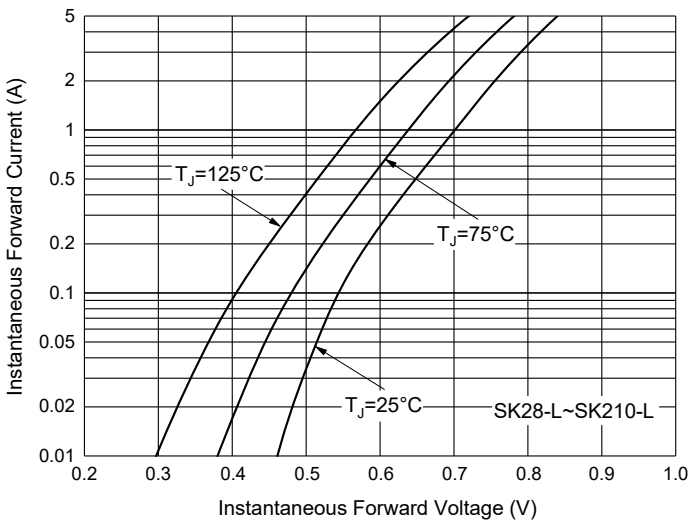
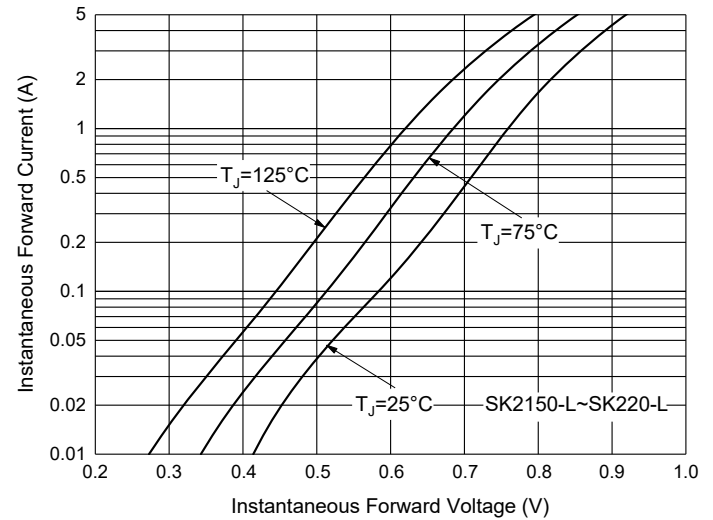


Fig. 6 - Typical Instantaneous Forward Characteristics



Curve Characteristics

Fig. 7 - Typical Reverse Leakage Characteristics

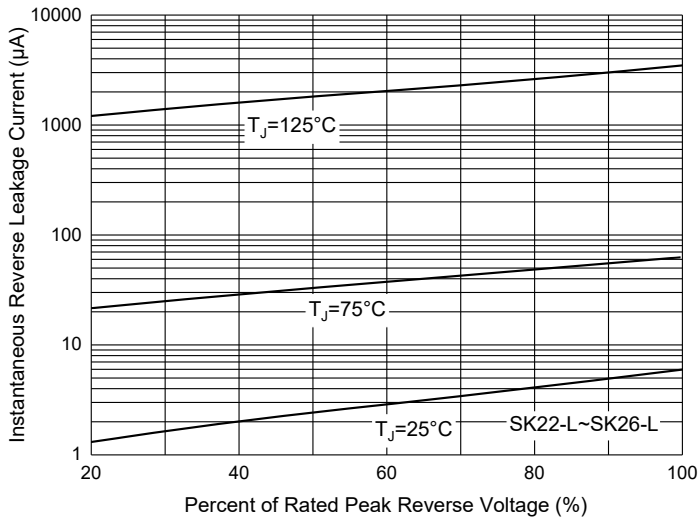


Fig. 8 - Typical Reverse Leakage Characteristics

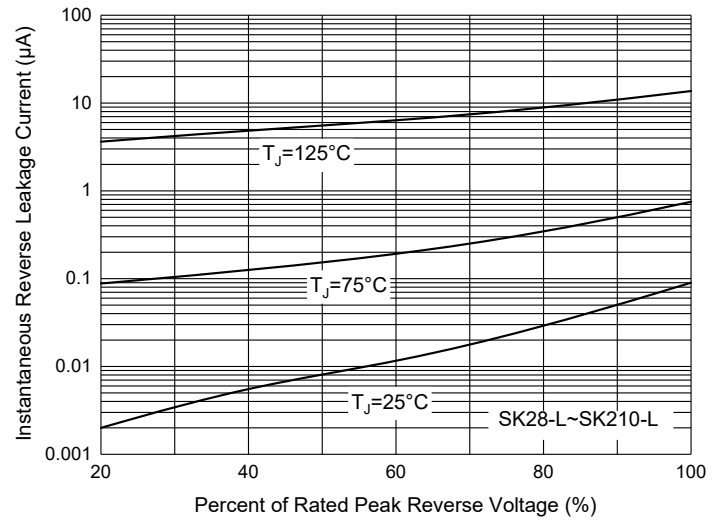
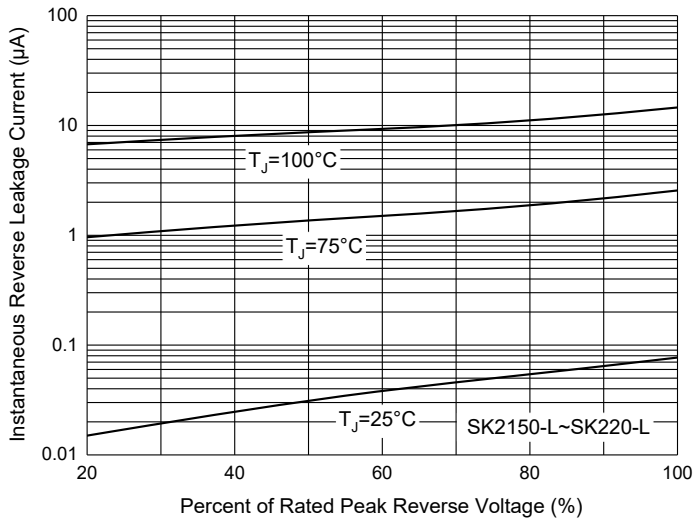


Fig. 9 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
SK22-LTP~SK220-LTP	Tape&Reel: 3Kpcs/Reel

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