

Features

- Halogen Free. "Green" Device (Note 1)
- High Current 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)

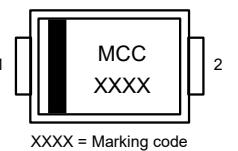
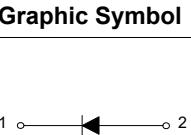
Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Value										Unit
		SK 22-L	SK 23-L	SK 24-L	SK 25-L	SK 26-L	SK 28-L	SK 210-L	SK 2150-L	SK 220-L		
Peak Repetitive Reverse Voltage	V_{RRM}											
Working Peak Reverse Voltage	V_{RWM}	20	30	40	50	60	80	100	150	200	V	
DC Blocking Voltage	V_R											
RMS Reverse Voltage	V_{RMS}	14	21	28	35	42	56	70	105	140	V	
Average Rectified Forward Current	$I_{F(AV)}$	2									A	
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I_{FSM}	50									A	
Current Squared Time @1ms ≤ t ≤ 8.3ms	I^2t	10.375									A^2s	

Marking code

Part Number	Marking Code
SK22-L	SK22
SK23-L	SK23
SK24-L	SK24
SK25-L	SK25
SK26-L	SK26
SK28-L	SK28
SK210-L	SK210
SK2150-L	SK2150
SK220-L	SK220

Internal Structure

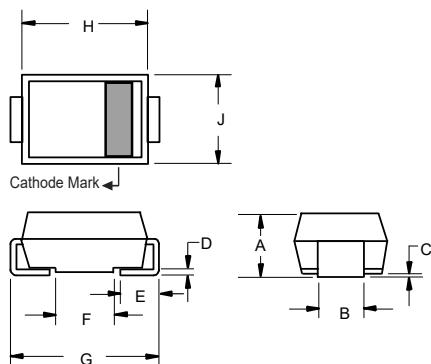
Pin	Description	Simplified Outline	Graphic Symbol
1	Cathode		
2	Anode	 XXXX = Marking code	

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.

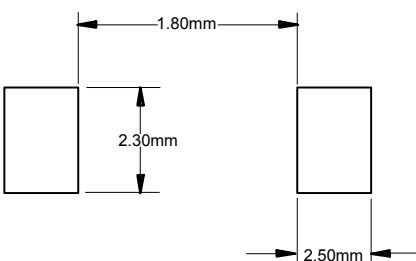
**&Amp
Gi fZUMY'Acibh
GW ch_mF YWIZYF
&0 to &00 Volts**

SMB(DO-214AA)



DIM	INCHES		MM		NOTE
	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



Thermal characteristics

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
T _J	Operating Junction Temperature Range	SK22-L ~ SK24-L	-55		125	°C
T _J	Operating Junction Temperature Range	SK25-L ~ SK220-L	-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
R _{th(J-L)}	Thermal Resistance from Junction to Lead	Note 1		15		°C/W
R _{th(J-A)}	Thermal Resistance from Junction to Ambient	Note 1		71		°C/W

Note:

1. Mounted on P.C.B. with 8mm*8mm copper pad areas.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage						
SK22-L ~ SK24-L	V _F	I _F =2A;T _J =25°C			0.50	V
SK25-L ~ SK26-L					0.70	
SK28-L ~ SK210-L					0.85	
SK2150-L ~ SK220-L					0.90	
Reverse Current						
SK22-L ~ SK26-L	I _R	at Rated V _R ;T _J =25°C			0.1	mA
SK28-L ~ SK220-L		at Rated V _R ;T _J =125°C			20	
		at Rated V _R ;T _J =25°C			0.01	
		at Rated V _R ;T _J =125°C			5	
Junction Capacitance						
SK22-L ~ SK24-L	C _J	V _R =4V;f=1MHz;T _J =25°C		125		pF
SK25-L ~ SK26-L				90		
SK28-L ~ SK210-L				60		
SK2150-L ~ SK220-L				50		

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

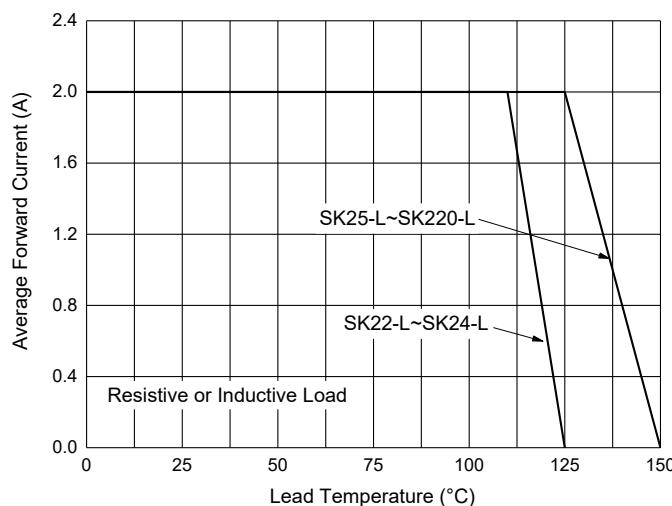


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

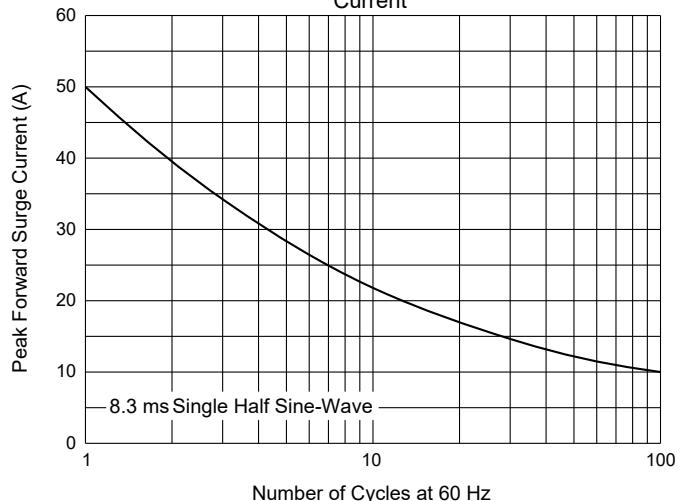


Fig. 3 - Typical Forward Characteristics

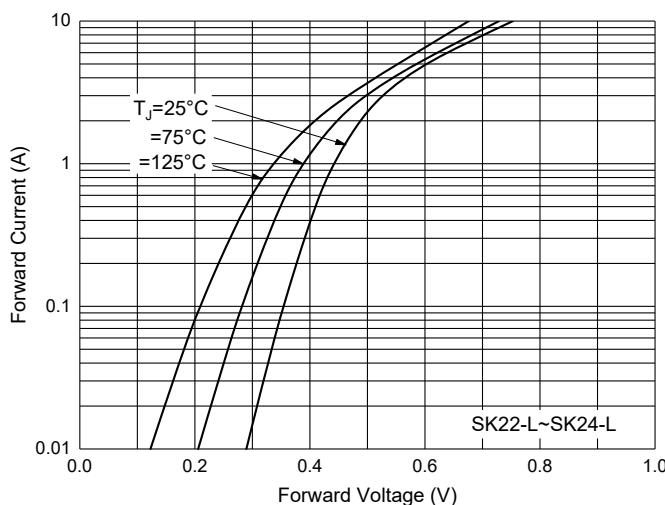


Fig. 4 - Typical Reverse Leakage Characteristics

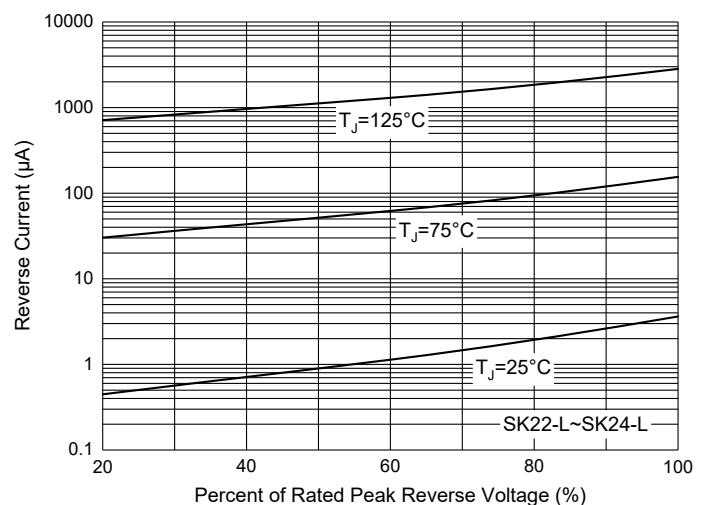


Fig. 5 - Typical Forward Characteristics

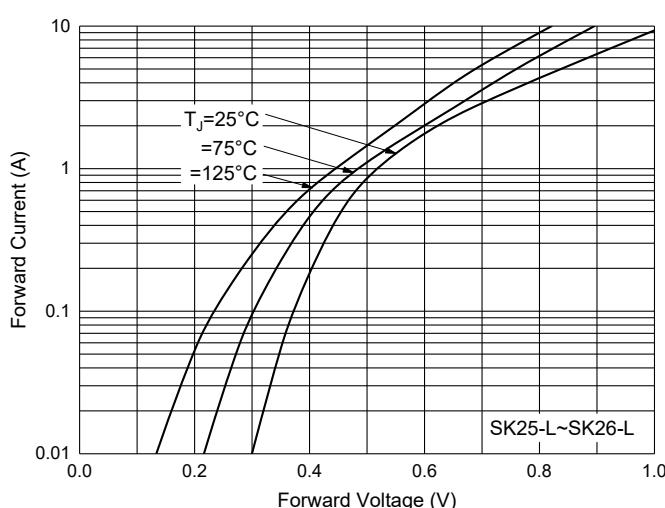
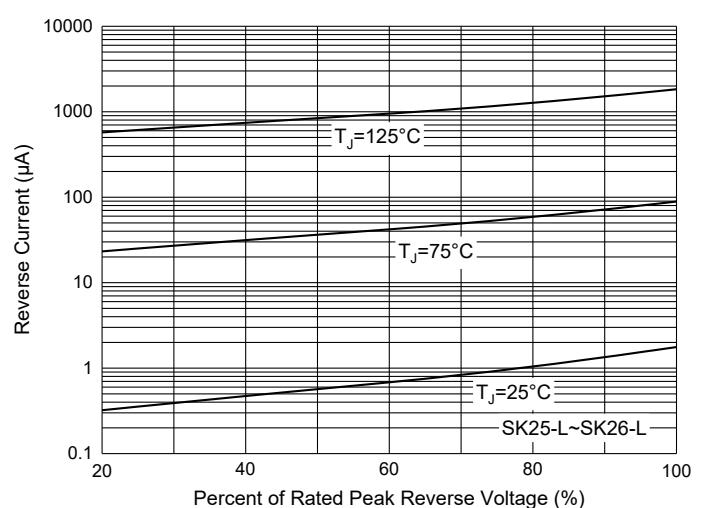


Fig. 6 - Typical Reverse Leakage Characteristics



Curve Characteristics

Fig. 7 - Typical Forward Characteristics

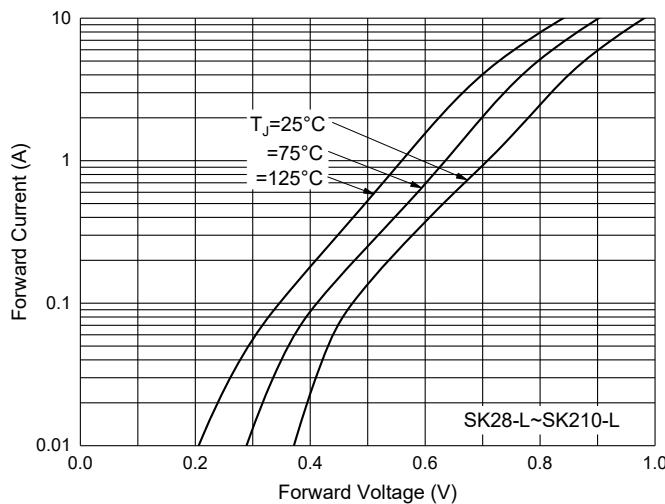


Fig. 8 - Typical Reverse Leakage Characteristics

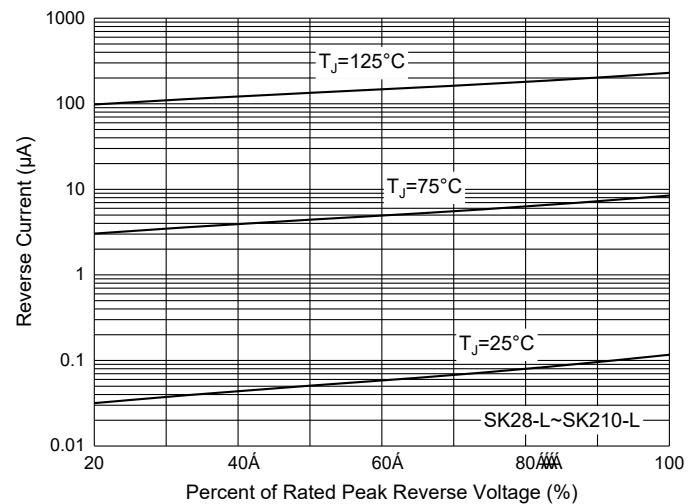


Fig. 9 - Typical Forward Characteristics

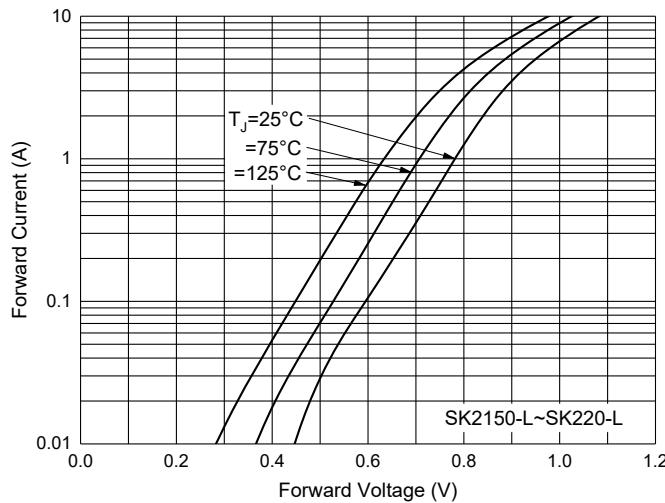


Fig. 10 - Typical Reverse Leakage Characteristics

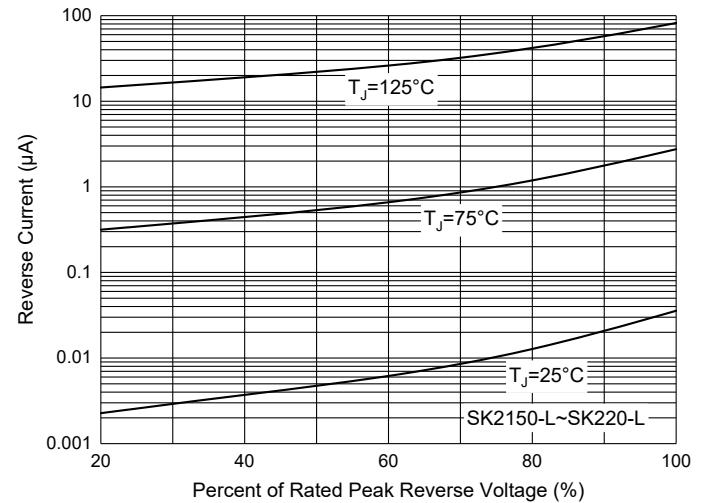
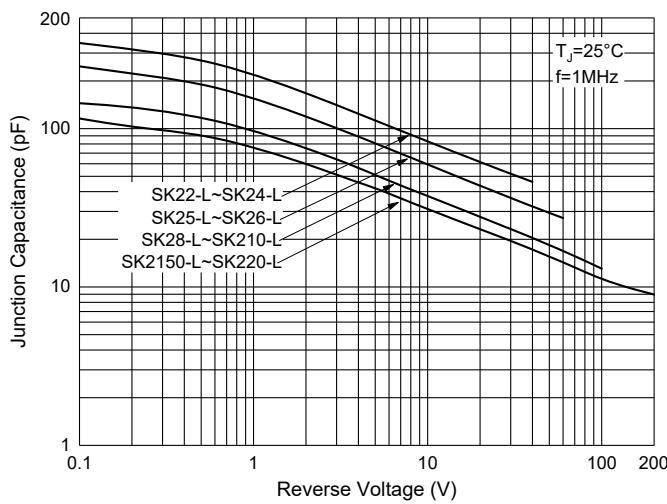


Fig. 11 - Typical Capacitance Characteristics



Ordering Information

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

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