

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)

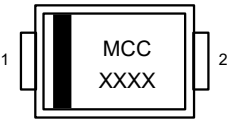

Maximum Ratings @ 25°C (Unless Otherwise Specified)

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}	20	30	40	50	60	80	100	150	200	V
Working Peak Reverse Voltage	V _{RWM}										
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 ² t	10.375									A ² s

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

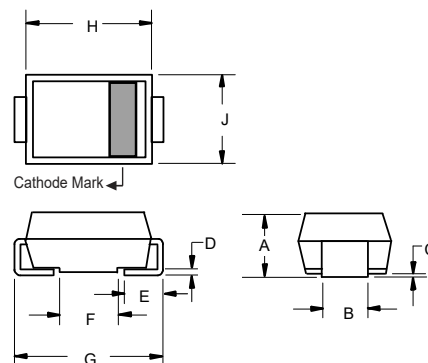
Pin	Description	Simplified Outline	Graphic Symbol
1	Cathode	 <p>XXXX = Marking code</p>	
2	Anode		

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.

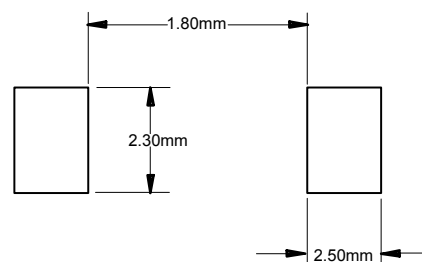
& Amp
Gi fZUW' Aci bh
GW ch_mIF YWjZyF
&0 to &00 Volts

SMB(DO-214AA)



DIMENSIONS					
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 SK25-L ~ SK26-L SK28-L ~ SK210-L SK2150-L ~ SK220-L	V_F	$I_F=2A; T_J=25^{\circ}C$			0.50 0.70 0.85 0.90	V
Reverse Current SK22-L ~ SK26-L SK28-L ~ SK220-L	I_R	at Rated $V_R; T_J=25^{\circ}C$ at Rated $V_R; T_J=125^{\circ}C$ at Rated $V_R; T_J=25^{\circ}C$ at Rated $V_R; T_J=125^{\circ}C$			0.1 20 0.01 5	mA
Junction Capacitance SK22-L ~ SK24-L SK25-L ~ SK26-L SK28-L ~ SK210-L SK2150-L ~ SK220-L	C_J	$V_R=4V; f=1MHz; T_J=25^{\circ}C$		125 90 60 50		pF

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

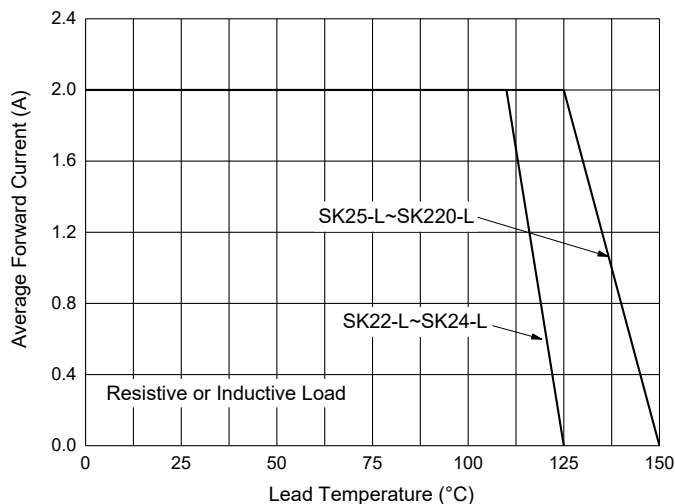


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

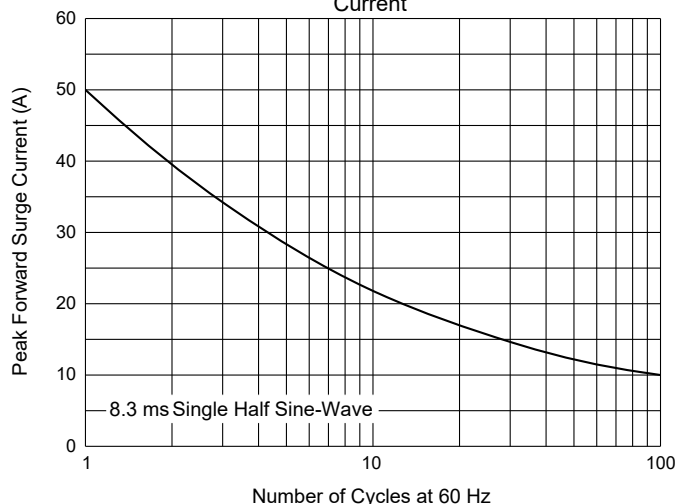


Fig. 3 - Typical Forward Characteristics

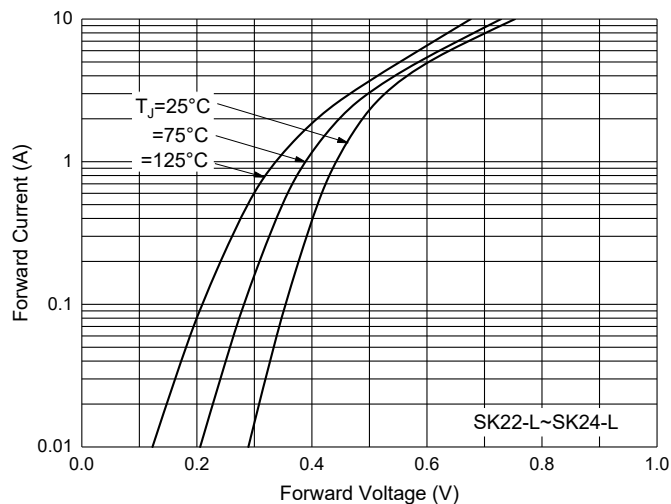


Fig. 4 - Typical Reverse Leakage Characteristics

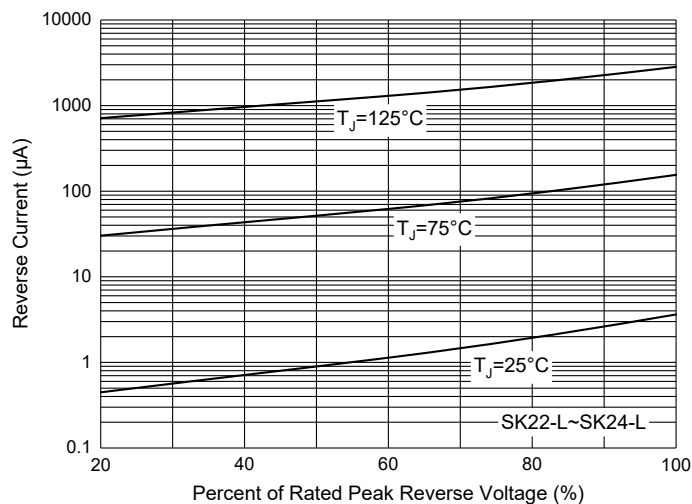


Fig. 5 - Typical Forward Characteristics

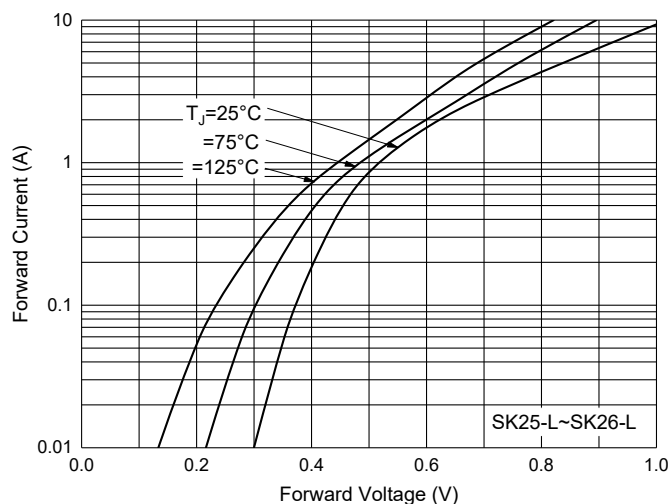
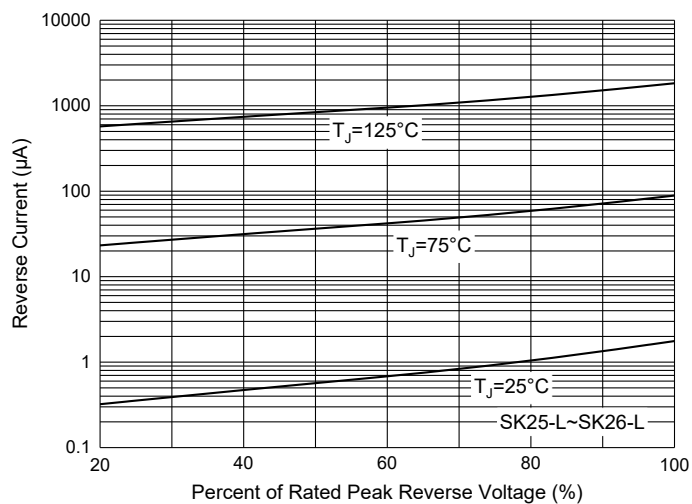


Fig. 6 - Typical Reverse Leakage Characteristics



Curve Characteristics

Fig. 7 - Typical Forward Characteristics

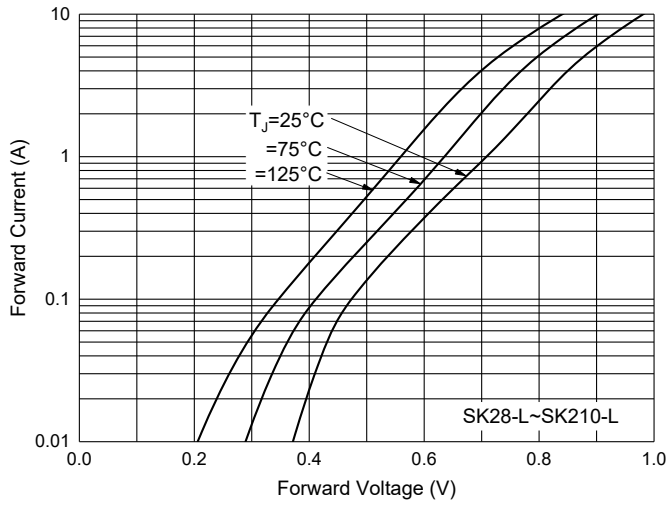


Fig. 8 - Typical Reverse Leakage Characteristics

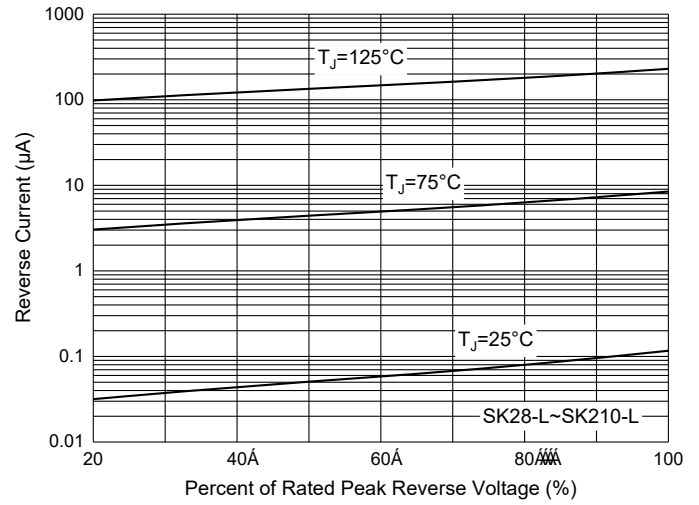


Fig. 9 - Typical Forward Characteristics

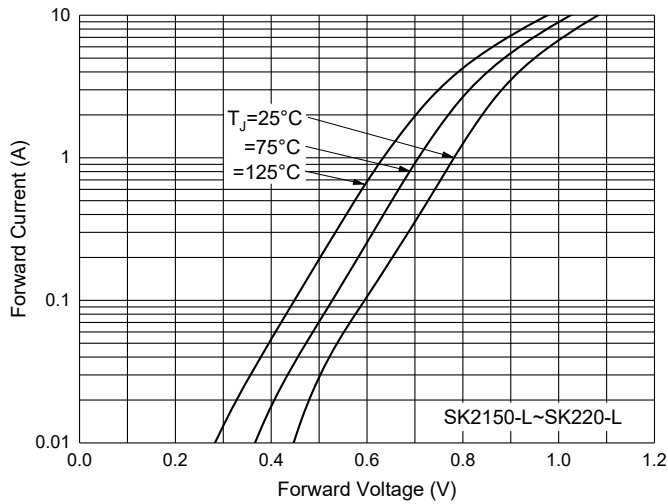


Fig. 10 - Typical Reverse Leakage Characteristics

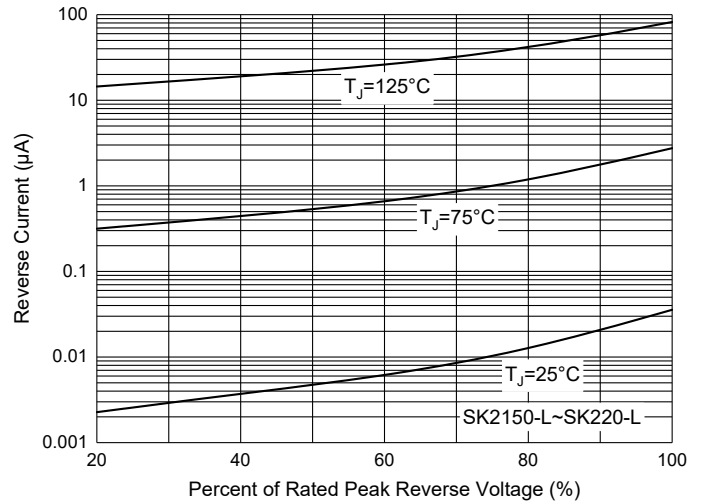
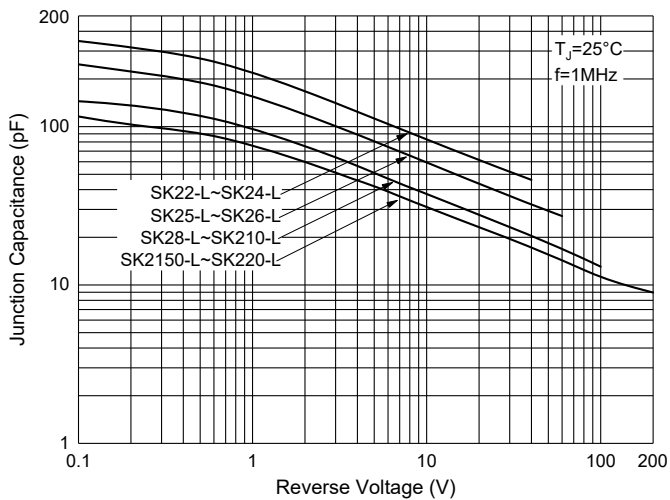


Fig. 11 - Typical Capacitance Characteristics



Ordering Information

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

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