

**Micro Commercial Components** 



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# **SK22-L THRU SK220-L**

## Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information) Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Low Forward Voltage
- Halogen free available upon request by adding suffix "-HF"
- **High Current Capability**
- **Extremely Low Thermal Resistance**

laximum Ratings

- Operating Temperature: SK22-L~SK26-L:-55°C to +125°C SK28-L~SK220-L: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance:RthjL-15 °C/W;Rthja-71 °C/W

MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number		Peak Reverse	Voltage	Blocking
		Voltage		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

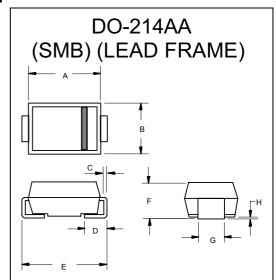
### **Electrical Characteristics @ 25°C Unless Otherwise Specified**

Average Forward	$I_{F(AV)}$	2.0A	$T_L = 105^{\circ}C$
Current			
Peak Forward Surge	I <sub>FSM</sub>	50A	8.3ms, half sine
Current			
Maximum Instantaneous			
Forward Voltage			
SK22-SK24		.50V	
SK25-SK26	$V_{F}$	.70V	$I_{FM} = 2.0A;$
SK28-SK210		.85V	T <sub>J</sub> = 25°C*
SK2150-SK220		.90V	
Maximum DC Reverse			
Current At Rated DC	$I_R$		T <sub>J</sub> = 25°C
Blocking Voltage			
SK22-SK24		2.0 mA	
SK25-SK210		1.0 mA	
SK2150-SK220		0.5 mA	
Typical Junction			
Capacitance			
SK22	CJ	230pF	Measured at
SK23-SK210		50pF	1.0MHz, V <sub>R</sub> =4.0V
SK2150-SK220		170 pF	

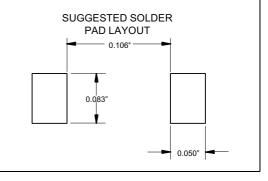
<sup>\*</sup>Pulse test: Pulse width 300 µsec, Duty cycle 2%

1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

## 2 Amp Schottky Rectifier 20 to 200 Volts



DIMENSIONS						
	INCHES		ММ			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.160	.185	4.06	4.70		
В	.130	.155	3.30	3.94		
С	.006	.012	0.15	0.31		
D	.030	.060	0.76	1.52		
E	.200	.220	5.08	5.59		
F	.079	.096	2.00	2.44		
G	.075	.087	1.91	2.21		
Н	.002	.008	0.05	0.203		



# SK22-L thru SK210-L Rating and Characteristic Curves



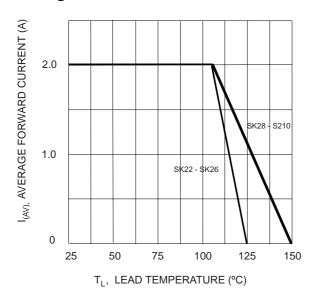


Fig. 1 Forward Current Derating Curve

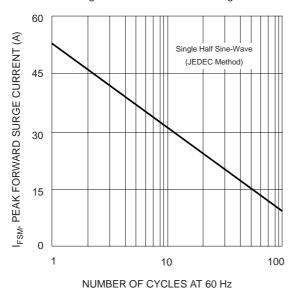
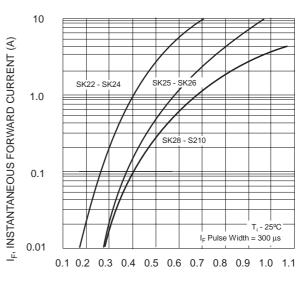


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current



V<sub>F</sub>, INSTANTANEOUS FWD VOLTAGE (V) Fig. 2 Typ. Forward Characteristics

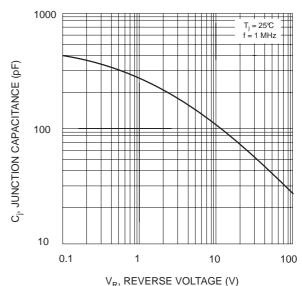
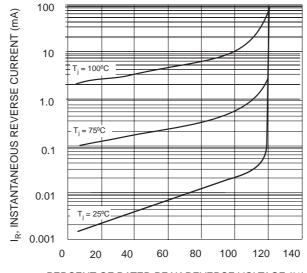


Fig. 4 Typical Junction Capacitance



PERCENT OF RATED PEAK REVERSE VOLTAGE (%) Fig. 5 Typical Reverse Characteristics



# SK2150-L thru SK220-L Rating and Characteristic Curves

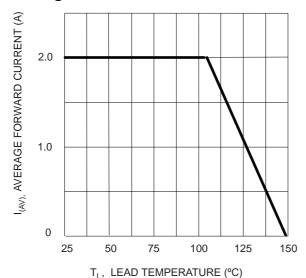
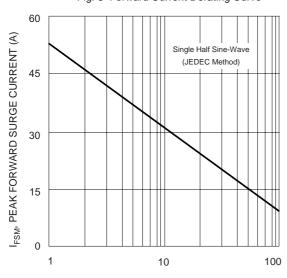


Fig. 6 Forward Current Derating Curve



NUMBER OF CYCLES AT 60 Hz Fig. 8 Max Non-Repetitive Peak Fwd Surge Current

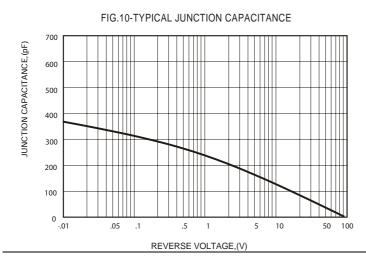


FIG.7-TYPICAL FORWARD
CHARACTERISTICS

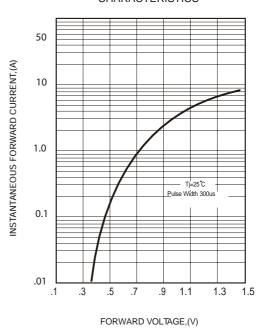
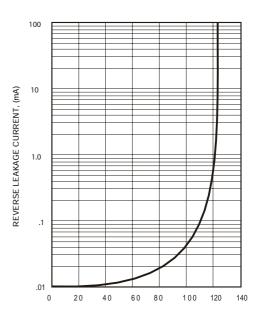


FIG.9 - TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED PEAK REVERSE VOLTAGE,(%)



## Ordering Information:

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

Note: Adding "-HF" suffix for halogen free, eg. SK22-LTP-HF~SK220-LTP-HF

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