

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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SK12-L THRU SK110-L

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Reverse Energy Tésted and Guard Ring Protection
- High Current Capability and Low Forward Voltage
- Extremely Low Thermal Resistance
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 15°C/W Junction To Lead

MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number		Peak Reverse	Voltage	Blocking
		Voltage		Voltage
SK12-L	SK12	20V	14V	20V
SK13-L	SK13	30V	21V	30V
SK14-L	SK14	40V	28V	40V
SK15-L	SK15	50V	35V	50V
SK16-L	SK16	60V	42V	60V
SK18-L	SK18	80V	56V	80V
SK110-L	SK110	100V	70V	100V

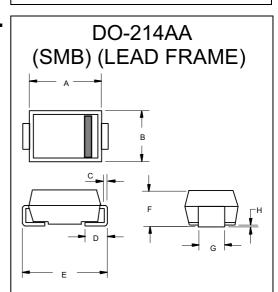
Electrical Characteristics @ 25°C Unless Otherwise Specified

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Average Forward Current	$I_{F(AV)}$	1.0A	T _L = 75°C
Peak Forward Surge Current	I _{FSM}	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage SK12~14 SK15~16 SK18~110	V _F	.50V .72V .85V	I _{FM} = 1.0A; T _J = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	.5mA 20mA	$T_J = 25$ °C $T_J = 100$ °C
Typical Junction Capacitance SK12 SK13~110	CJ	110pF 30pF	Measured at 1.0MHz, V _R =4.0V

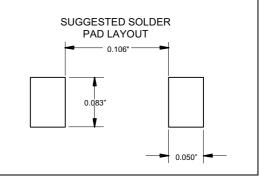
^{*}Pulse test: Pulse width 300 µsec, Duty cycle 2%

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.

1 Amp Schottky Rectifier 20 to 100 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		
Е	.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		



SK12-L thru SK110-L Rating and Characteristic Curves



AVERAGEFORWARD RECITIFIED CURRENT AMPERES

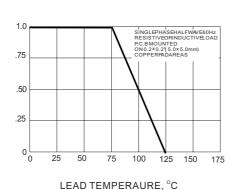


Figure 1. -- Forward current derating curve

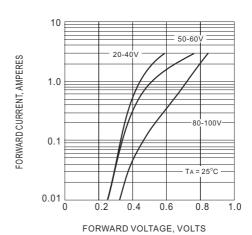


Figure 2. -- Typical Instantaneous Forward Characteristic

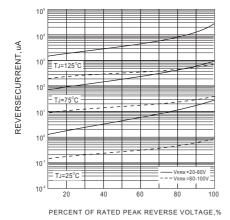
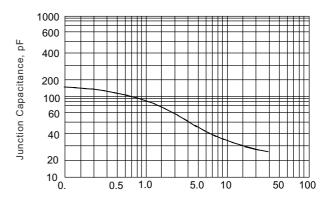


Figure 3. --Typical Reverse Characteristics



Reverse Voltage - Volts

Figure 4. -- Typical Junction Capacitance



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Ordering Information:

Device	Packing
SK12-LTP~SK110-LTP	Tape&Reel: 3Kpcs/Reel

Note: Adding "-HF" suffix for halogen free, eg. SK12-LTP-HF~SK110-LTP-HF

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