

Micro Commercial Components



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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 Tested 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

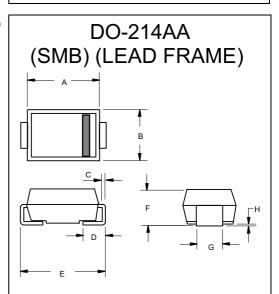
Average Forward Current $I_{F(AV)}$ 1.0A $T_L = 75^{\circ}C$ Peak Forward Surge Current I_{FSM} 30A8.3ms, half sineMaximum Instantaneous Forward Voltage V_F $.50V$ $I_{FM} = 1.0A;$ $T_J = 25^{\circ}C$ SK15~16 SK18~110 $.72V$.85V $I_FM = 1.0A;$ $T_J = 25^{\circ}C$ Maximum DC Reverse Current At Rated DC Blocking Voltage I_R $.5mA$ 20mA $T_J = 25^{\circ}C$ $T_J = 100^{\circ}C$ Typical Junction Capacitance $SK12$ SK12 C_J $110pF$ 20mFMeasured at $1.0MI = 1/2 = 4.0V/$				
$\begin{tabular}{ c c c c c c } \hline Current & & & & & & & & & & & & & & & & & & &$	0	I _{F(AV)}	1.0A	T _L = 75°C
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	0	I _{FSM}	30A	8.3ms, half sine
Current At Rated DC Blocking VoltageIR $.5mA$ $I_J = 25^{\circ}C$ Typical Junction Capacitance SK12IR $20mA$ $T_J = 100^{\circ}C$	Instantaneous Forward Voltage SK12~14 SK15~16	VF	.72V	, ,
Capacitance SK12 CJ 110pF Measured at	Current At Rated DC	I _R		0
SK13~110 SUPF 1.0101⊓2, VR-4.0V	Capacitance SK12 SK13~110	_	30pF	Measured at 1.0MHz, V _R =4.0V

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

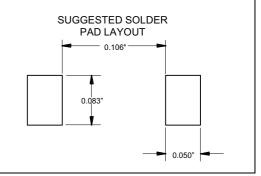
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.

SK12-L THRU SK110-L

1 Amp Schottky Rectifier 20 to 100 Volts



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
А	.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	



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SK12-L thru SK110-L Rating and Characteristic Curves

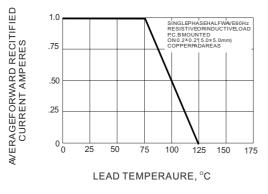


Figure 1. -- Forward current derating curve

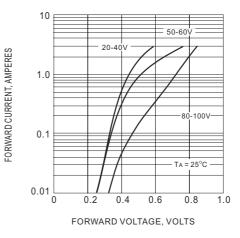
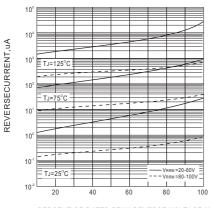
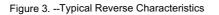


Figure 2. -- Typical Instantaneous Forward Characteristic



PERCENT OF RATED PEAK REVERSE VOLTAGE,%



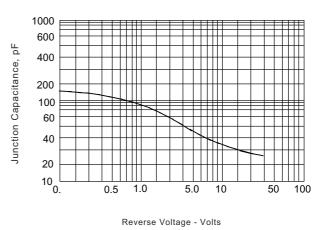


Figure 4. -- Typical Junction Capacitance

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Ordering Information :

Device	Packing	
Part Number-TP	Tape&Reel: 3Kpcs/Reel	

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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