### NOT RECOMMENDED FOR NEW DESIGNS USE SK12-LTP~SK110-LTP SERIES



**Micro Commercial Components** 



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### **Features**

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Low Forward Voltage
- **Guard Ring Protection**
- High Current Capability
- Low Thermal Resistance
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

### **Maximum Ratings**

- Operating Temperature(Tj): -55°C to +125°C
- Storage Temperature(Tstg): -55°C to +150°C
- Maximum Thermal Resistance; 28°C/W Junction To Lead

MCC	Device	Maximum Maximum		Maximum
Catalog	Marking	Recurrent	RMS	DC
Number	-	Peak Reverse	Voltage	Blocking
		Voltage	0	Voltage
SK12	SK12	20V	14V	20V
SK13	SK13	30V	21V	30V
SK14	SK14	40V	28V	40V
SK15	SK15	50V	35V	50V
SK16	SK16	60V	42V	60V
SK18	SK18	80V	56V	80V
SK110	SK110	100V	70V	100V

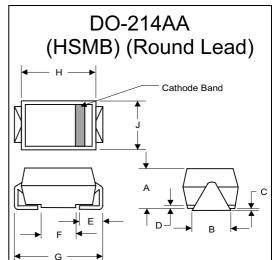
#### Electrical Characteristics @ 25°C Unless Otherwise Specified

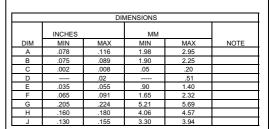
Average Forward	I <sub>F(AV)</sub>	1.0A	T <sub>J</sub> = 90°C		
Current					
Peak Forward Surge	I <sub>FSM</sub>	30A	8.3ms, half sine		
Current					
Maximum					
Instantaneous					
Forward Voltage					
SK12	VF	.45V	I <sub>FM</sub> = 1.0A;		
SK13		.55V	T <sub>a</sub> = 25°C*		
SK14		.60V			
SK15-16		.72V			
SK18-110		.85V			
Maximum DC Reverse	I <sub>R</sub>	0.5mA	T <sub>A</sub> = 25°C		
Current At Rated DC	'R	20mA			
Blocking Voltage		ZUIIIA	T <sub>A</sub> = 100°C		
Typical Junction					
Capacitance					
SK12	CJ	110pF	Measured at		
SK13-SK110		30pF	1.0MHz, V <sub>R</sub> =4.0V		
Pulse test: Pulse width 300 usec. Duty cycle 2%					

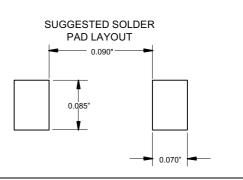


**SK12** 

## **1 Amp Schottky** Rectifier 20 to 100 Volts







"Puise test: Puise width 300 µsec, Duty cycle 2%

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

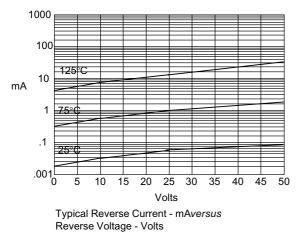
# www.mccsemi.com

# SK12

Figure 1 Typical Forward Characteristics 100 80 60 40 20 10 8.0 6.0 Amps 4.0 125°C 25°C 2.0 1.0 .8 .6 .4 .2 .1 .8 1.0 1.2 1.4 0 .2 .4 .6 Volts

Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts

Figure 2 Typical Reverse Characteristics



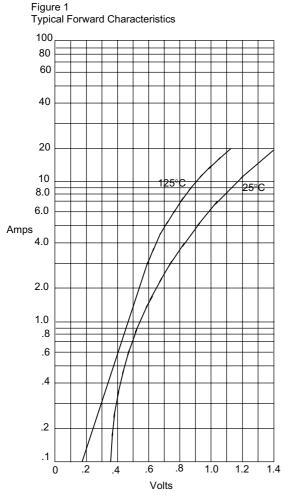
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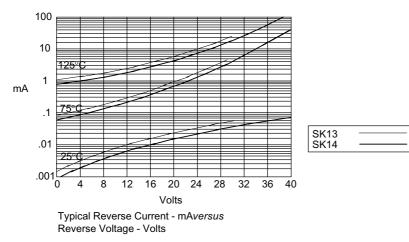
**Revision: B** 

## SK13 thru SK110



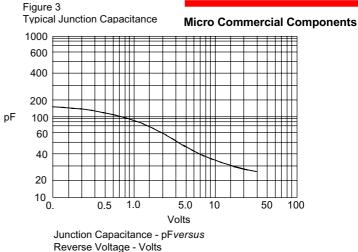
Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts

Figure 2 Typical Reverse Characteristics



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### **Ordering Information :**

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

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