

**Micro Commercial Components** 



**Micro Commercial Components** 130 W Cochran St, Unit B Simi Valley, CA 93065 Tel:818-701-4933

### Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"
- High Current Capability With Low Forward Voltage
- High Temp Soldering: 260 °C for 10 Seconds At Terminals
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

#### Max as

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C Maximum Thermal Resistance :20°C/W Junction To Case
- Maximum Thermal Resistance :10°C/W Junction To Lead
- Maximum Thermal Resistance :55°C/W Junction To Ambiemt

MCC	Device	Maximum	Maximum	Maximum	
Catalog	Marking	Recurrent	RMS	DC	
Number		Peak Reverse	Voltage	Blocking	
		Voltage	-	Voltage	
SK32	SK32	20V	14V	20V	
SK33	SK33	30V	21V	30V	
SK34	SK34	40V	28V	40V	
SK35	SK35	50V	35V	50V	
SK36	SK36	60V	42V	60V	
SK38	SK38	80V	56V	80V	
SK310	SK310	100V	70V	100V	

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

Average Forward Current	I <sub>F(AV)</sub>	3.0A	T <sub>L</sub> = 100°C
Peak Forward Surge Current	I <sub>FSM</sub>	100A	8.3ms, half sine
Maximum Instantaneous Forward Voltage SK32-34 SK35-36 SK38-310	VF	.50V .75V .85V	I <sub>FM</sub> = 3.0A; T <sub>J</sub> = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	.5mA 20mA	T <sub>J</sub> = 25°C T <sub>J</sub> = 100°C
Typical Junction Capacitance	C	250pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V

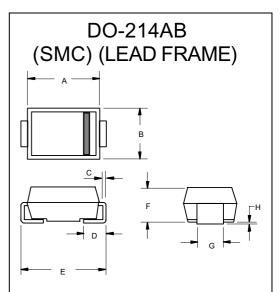
\*Pulse test: Pulse width 200 µsec, Duty cycle 2% Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

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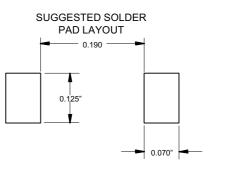
#### **Revision:** D

# **SK32** THRU **SK310**

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



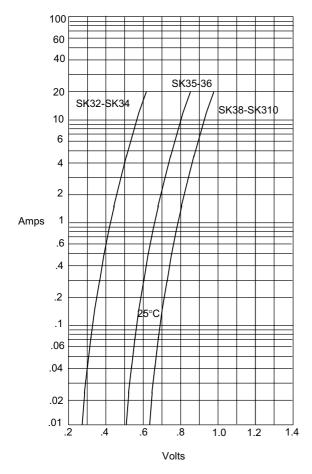
DIMENSIONS						
	INCHES		ММ			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.260	.280	6.60	7.11		
В	.220	.245	5.59	6.22		
С	.006	.012	0.15	0.31		
D	.030	.060	0.76	1.52		
Е	.305	.320	7.75	8.13		
F	.079	.103	2.00	2.62		
G	.108	.128	2.75	3.25		
н	.002	.008	0.050	0.203		

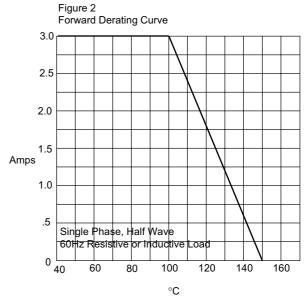


### SK32 thru SK310

Figure 1

Typical Forward Characteristics

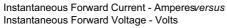


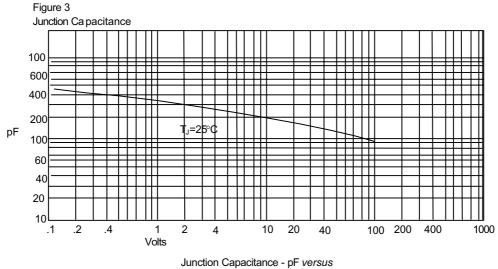


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Average Forward Rectified Current - Amperesversus Lead Temperature  $\ \ \ ^\circ C$ 





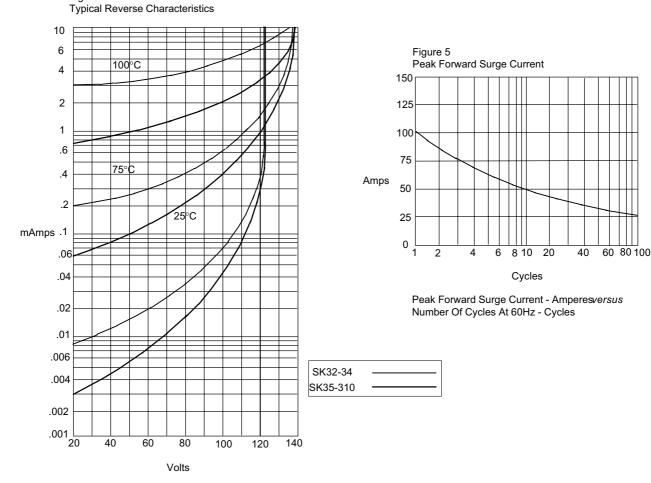
Reverse Voltage - Volts

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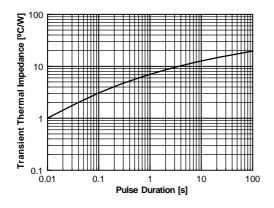
## SK32 thru SK310

Figure 4



Instantaneous Reverse Leakage Current - MicroAmperesversus Percent Of Rated Peak Reverse Voltage - Volts

Figure 6 Thermal Impedance Characteristics



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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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