



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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# SK32A **THRU SK310A**

### **Features**

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Same Electrical Characteristics As The SMC Version
- Very Low Cost
- Can Be Up To 50% Smaller Than The SMC To Save Precious **Board Space**
- High Current Capability With Low Forward Voltage
- For Surface Mount Applications Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

## laximum Ratings

- Operating Temperature: -50°C to +125°C
- Storage Temperature: -50°C to +150°C
- Maximum Thermal Resistance; 10°C/W Junction To Lead

MCC	Device	Maximum	Maximum	Maximum
Part	Marking	Recurrent RMS		DC
Number		Peak Reverse	Voltage	Blocking
		Voltage	_	Voltage
SK32A	SK32A	20V	14V	20V
SK33A	SK33A	30V	21V	30V
SK34A	SK34A	40V	28V	40V
SK35A	SK35A	50V	35V	50V
SK36A	SK36A	60V	42V	60V
SK38A	SK38A	80V	56V	80V
SK310A	SK310A	100V	70V	100V

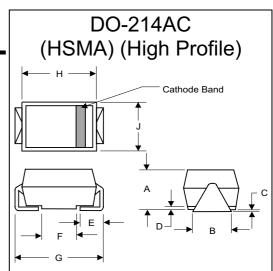
### Electrical Characteristics @ 25°C Unless Otherwise Specified

	_		
Average Forward	$I_{F(AV)}$	3.0A	T <sub>L</sub> = 100°C
Current			
Peak Forward Surge	$I_{FSM}$	80A	8.3ms, half sine
Current			·
Maximum			
Instantaneous			
Forward Voltage			
SK32A-34A	$V_{F}$	.50V	$I_{FM} = 3.0A;$
SK35A-36A		.75V	T <sub>J</sub> = 25°C*
SK38A-310A		.85V	
Maximum DC			
Reverse Current At	$I_R$	.5mA	T <sub>J</sub> = 25°C
Rated DC Blocking		20mA	T <sub>.1</sub> = 100°C
Voltage			
Typical Junction	C٦	250pF	Measured at
Capacitance		•	1.0MHz, V <sub>R</sub> =4.0V

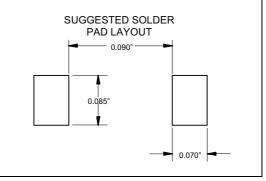
<sup>\*</sup>Pulse test: Pulse width 200 µsec, Duty cycle 2%

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

## 3 Amp Schottky Rectifier 20 to 100 Volts



DIMENSIONS						
	INCHES		ММ			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.078	.116	1.98	2.95		
В	.067	.089	1.70	2.25		
С	.002	.008	.05	.20		
D	-	.02		.51		
E	.035	.055	.89	1.40		
F	.065	.096	1.65	2.45		
G	.205	.224	5.21	5.69		
Н	.160	.180	4.06	4.57		
J	.100	.112	2.57	2.84		

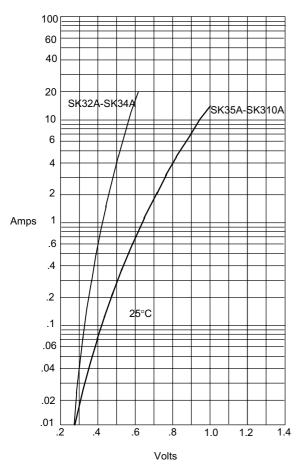


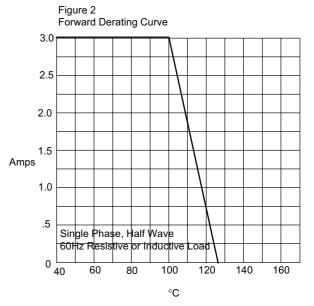
## SK32A thru SK310A

Figure 1
Typical Forward Characteristics



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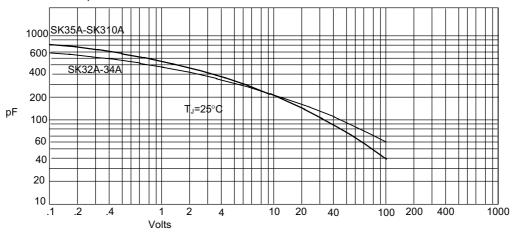




Average Forward Rectified Current - Amperes/ersus Lead Temperature -°C

Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts

Figure 3
Junction Capacitance



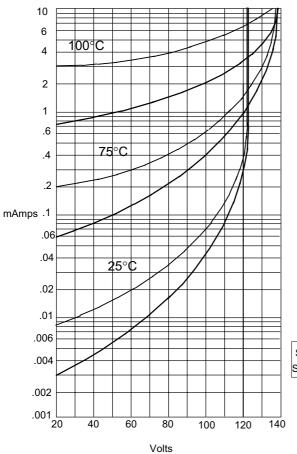
Junction Capacitance - pF*versus* Reverse Voltage - Volts

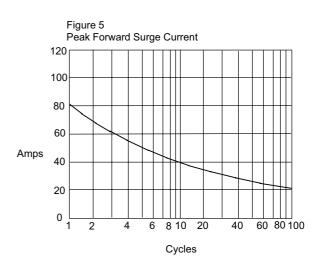
## SK32A thru SK310A



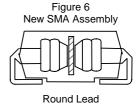
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Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles



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



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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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