



# Micro Commercial Components Corp.

Complete Discrete Semiconductor Solutions

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Part Number	SK310A
product family	SCHOTTKY BARRIER RECTIFIERS
package type	HSMA
VRM(PRV)	100V
Ifsm	100A
IF(AV)	3.0A
@Vf	0.85V
@If	3.0A
Trr	
IR	0.5mA
@VR	100V
Package Qty	Tape : 3K/Reel, 48K/Ctn;

This product is listed under the following categories where you may find similar products:  
[Diodes](#)  
[Schottky Barrier Rectifiers](#)



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# SK32A THRU SK310A

## 3 Amp Schottky Rectifier 20 to 100 Volts

### 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
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL rating 1

### Maximum 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 Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking 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

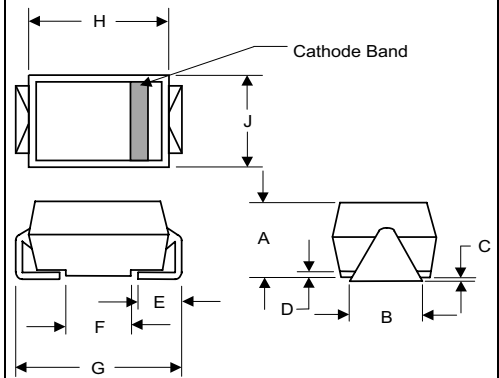
### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	3.0A	$T_L = 100^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	100A	8.3ms, half sine
Maximum Instantaneous Forward Voltage SK32A-34A SK35A-36A SK38A-310A	$V_F$	.50V .75V .85V	$I_{FM} = 3.0A;$ $T_J = 25^\circ\text{C}^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	.5mA 20mA	$T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$
Typical Junction Capacitance	$C_J$	45pF	Measured at 1.0MHz, $V_R=4.0V$

\*Pulse test: Pulse width 200  $\mu\text{sec}$ , Duty cycle 2%

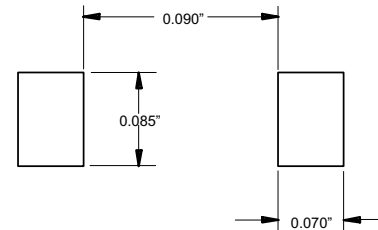
Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

### DO-214AC (HSMA) (High Profile)



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.078	.116	1.98	2.95	
B	.067	.089	1.70	2.25	
C	.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	
H	.160	.180	4.06	4.57	
J	.100	.112	2.57	2.84	

### SUGGESTED SOLDER PAD LAYOUT





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## Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;3Kpcs/Reel

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