



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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# SK32AFL THRU SK310AFL

### **Features**

- Halogen free available upon request by adding suffix "-HF"
- 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
- High Current Capability With Low Forward Voltage
- For Surface Mount Applications
- Extremely Low Thermal Resistance
- Easy Pick And Place

### **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	Device	Maximum	Maximum	Maximum
Part	Marking	Recurrent	RMS	DC
Number		Peak Reverse	Voltage	Blocking
		Voltage		Voltage
SK32AFL	SK32A	20V	14V	20V
SK33AFL	SK33A	30V	21V	30V
SK34AFL	SK34A	40V	28V	40V
SK35AFL	SK35A	50V	35V	50V
SK36AFL	SK36A	60V	42V	60V
SK38AFL	SK38A	80V	56V	80V
SK310AFL	SK310A	100V	70V	100V

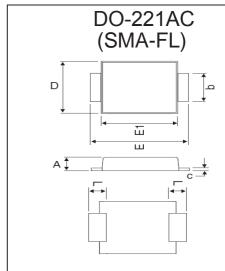
### Electrical Characteristics @ 25°C Unless Otherwise Specified

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Average Forward Current	$I_{F(AV)}$	3.0A	T <sub>A</sub> = 125°C
Peak Forward Surge Current	I <sub>FSM</sub>	80A	8.3ms, half sine
Maximum Instantaneous Forward Voltage SK32AFL-34AFL SK35AFL-36AFL SK38AFL-310AFL	$V_{F}$	.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 SK32AFL-34AFL SK35AFL-36AFL SK38AFL-310AFL	CJ	180pF 150pF 110pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V

#### \*Pulse test: Pulse width 200 µsec, Duty cycle 2%

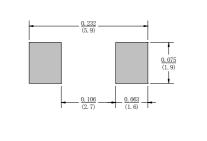
Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

# 3 Amp Schottky Rectifier 20 to 100 Volts



DIMENSIONS							
	INCHES		MM				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.035	.047	0.90	1.20			
b	.049	.065	1.25	1.65			
С	.004	.016	0.10	0.40			
D	.089	.116	2.25	2.95			
E	.173	.220	4.40	5.60			
E1	.126	.181	3.20	4.60			
L	.028	.059	0.70	1.50			

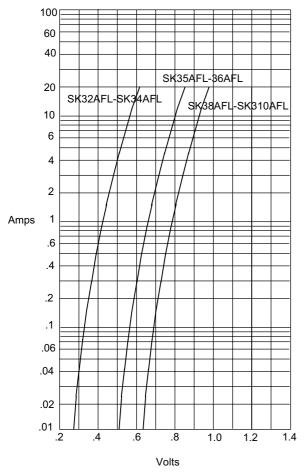
#### SUGGESTED SOLDER PAD LAYOUT



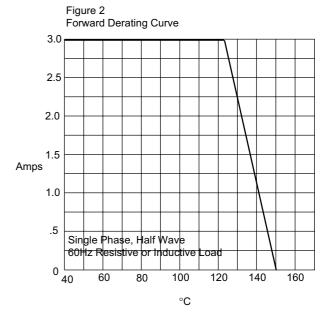


### SK32AFL thru SK310AFL

Figure 1
Typical Forward Characteristics



Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts

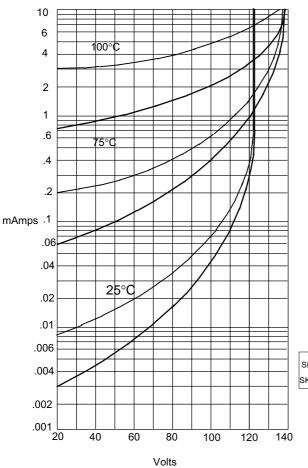


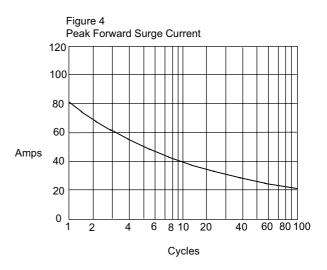
Average Forward Rectified Current - Amperes/ersus Ambient Temperature - $^{\circ}$ C



# SK32AFL thru SK310AFL

Figure 3
Typical Reverse Characteristics





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

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



#### Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel: 10Kpcs/Reel

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

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