

# SK32A - SK310A

**PRV : 20 - 100 Volts**  
**I<sub>o</sub> : 3.0 Amperes**

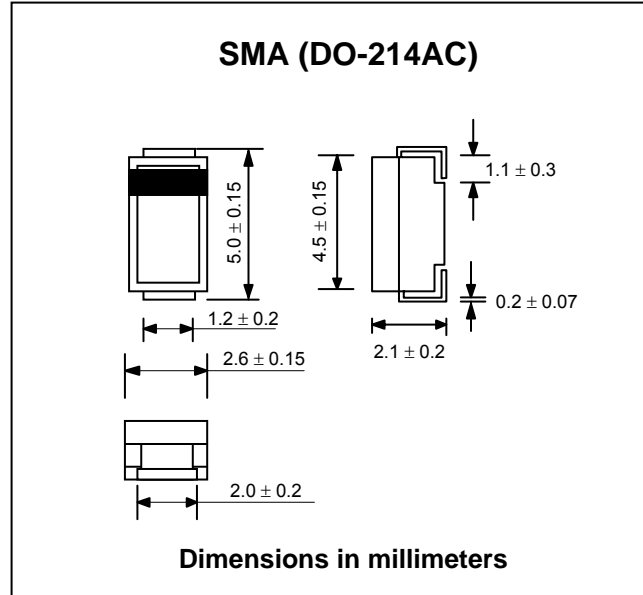
### FEATURES :

- \* High current capability
- \* High surge current capability
- \* High reliability
- \* High efficiency
- \* Low power loss
- \* Low forward voltage drop
- \* Pb / RoHS Free

### MECHANICAL DATA :

- \* Case : SMA (DO-214AC) Molded plastic
- \* Epoxy : UL94V-O rate flame retardant
- \* Lead : Lead Formed for Surface Mount
- \* Polarity : Color band denotes cathode end
- \* Mounting position : Any
- \* Weight : 0.067 gram

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.  
 For capacitive load, derate current by 20%.

RATING	SYMBOL	SK 32A	SK 33A	SK 34A	SK 35A	SK 36A	SK 38A	SK 310A	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	80	100	V
Maximum Average Forward Current at T <sub>J</sub> = 120 °C	I <sub>F(AV)</sub>	3.0							A
Maximum Peak Forward Surge Current, 8.3ms single half sine wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	80							A
Maximum Forward Voltage at I <sub>F</sub> = 3.0 A	V <sub>F</sub>	0.5		0.75		0.85		V	
Maximum Reverse Current at Ta = 25 °C	I <sub>R</sub>	0.5							mA
Rated DC Blocking Voltage (Note 1) Ta = 100 °C	I <sub>R(H)</sub>	20							mA
Maximum Thermal Resistance (Junction to Case)	R <sub>θJC</sub>	10							°C/W
Junction Temperature Range	T <sub>J</sub>	- 65 to + 125							°C
Storage Temperature Range	T <sub>STG</sub>	- 65 to + 150							°C

**Note :**  
 (1) Pulse Test : Pulse Width = 300 μs, Duty Cycle = 2%

## RATING AND CHARACTERISTIC CURVES ( SK32A - SK3BA )

FIG.1 - FORWARD CURRENT DERATING CURVE

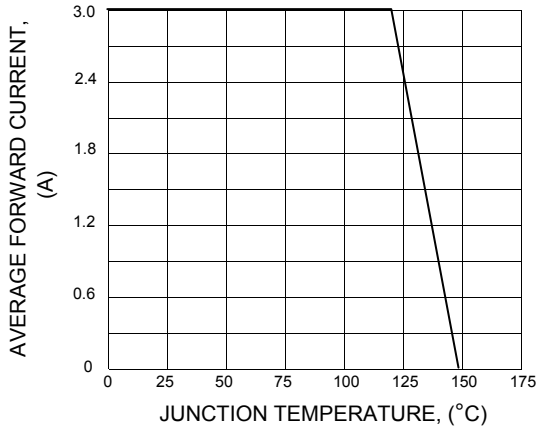


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

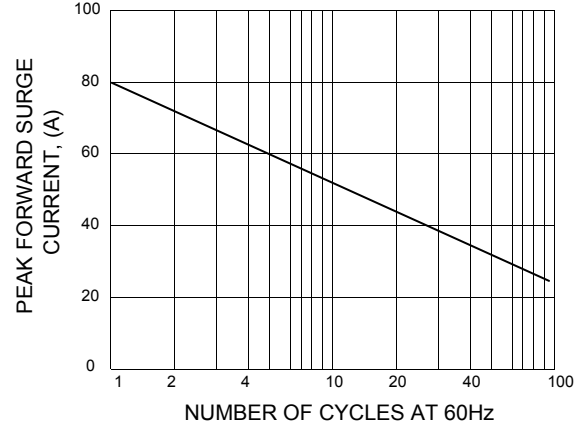


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

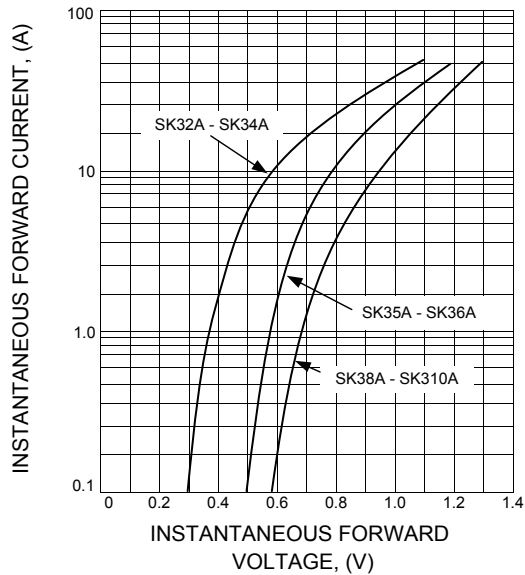


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

