

# SK32A thru SK36A

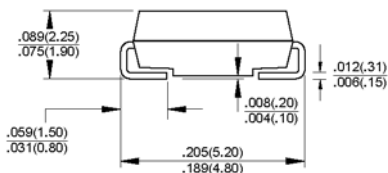
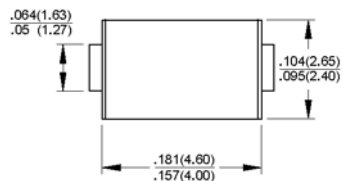
Surface Mount Schottky Barrier Rectifiers  
Reverse Voltage 20 to 60 Volts Forward Current 3.0 Amperes

## Features

- ◆ For surface mounted applications
- ◆ Metal-Semiconductor junction with guarding
- ◆ Epitaxial construction
- ◆ Very low forward voltage drop
- ◆ High current capability
- ◆ Plastic material has UL flammability classification 94V-0
- ◆ For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications



DO-214AC (SMA)



Dimensions in inches and (millimeters)

## Mechanical Data

- ◆ Case : JEDEC DO-214AC(SMA) molded plastic
- ◆ Polarity : Color band denotes cathode
- ◆ Weight : 0.002 ounce, 0.064 gram

## Maximum Ratings and Electrical Characteristics

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

Parameter	Symbols	SK32A	SK33A	SK34A	SK35A	SK36A	Units
Maximum repetitive peak reverse voltage	$V_{RRM}$	20	30	40	50	60	Volts
Maximum RMS voltage	$V_{RMS}$	14	21	28	35	42	Volts
Maximum DC blocking voltage	$V_{DC}$	20	30	40	50	60	Volts
Maximum average forward rectified current @ $T_J = 100^\circ\text{C}$	$I_{AV}$	3.0					Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	100.0					Amps
Maximum forward voltage at 3.0A DC	$V_F$	0.50			0.70		Volts
Maximum DC reverse current at rated DC blocking voltage @ $T_J = 25^\circ\text{C}$ @ $T_J = 100^\circ\text{C}$	$I_R$				0.5 20		mA
Typical junction capacitance (Note 1)	$C_J$	250					pF
Typical thermal resistance (Note 2) (Note 3)	$R_{JL}$ $R_{JA}$				10 50		$^\circ\text{C}/\text{W}$
Operating junction temperature range	$T_J$	-55 to +125					$^\circ\text{C}$
Storage temperature range	$T_{STG}$	-55 to +150					$^\circ\text{C}$

- Notes:
1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
  2. Thermal Resistance Junction to Lead.
  3. Thermal Resistance Junction to Ambient.

# RATINGS AND CHARACTERISTIC CURVES

