



# SK27 thru SK2B

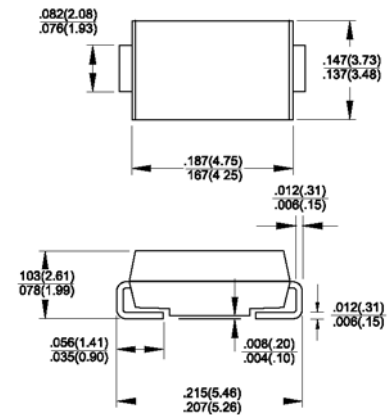
Surface Mount Schottky Barrier Rectifiers  
Reverse Voltage 70 to 100 Volts Forward Current 2.0 Amperes

## 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-214AA (SMB)



Dimensions in inches and (millimeters)

## Mechanical Data

- ◆ Case : JEDEC DO-214AA(SMB) molded plastic
- ◆ Polarity : Color band denotes cathode
- ◆ Weight : 0.003 ounce, 0.093 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	SK27	SK28	SK29	SK2B	Units
Maximum repetitive peak reverse voltage	$V_{RRM}$	70	80	90	100	Volts
Maximum RMS voltage	$V_{RMS}$	49	56	63	70	Volts
Maximum DC blocking voltage	$V_{DC}$	70	80	90	100	Volts
Maximum average forward rectified current @ $T_L=100^\circ\text{C}$	$I_{AV}$	2.0				Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	50.0				Amps
Maximum forward voltage at 2.0A DC @ $T_J=25^\circ\text{C}$ @ $T_J=100^\circ\text{C}$	$V_F$	0.79 0.69				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 15				mA
Typical junction capacitance (Note 1)	$C_J$	75				pF
Typical thermal resistance (Note 2)	$R_{\theta JL}$	15				$^\circ\text{C/W}$
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.

# RATINGS AND CHARACTERISTIC CURVES

