

## Features

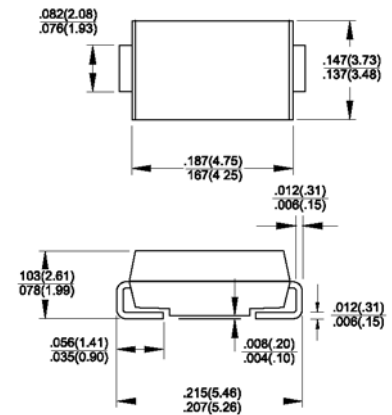
- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ Low profile package
- ◆ Built-in strain relief, ideal for automated placement
- ◆ Glass passivated chip junction
- ◆ High temperature soldering: 250°C/10 seconds at terminals

## Mechanical Data

- ◆ Case: JEDEC DO-214AA (SMB) molded plastic body over glass passivated chip
- ◆ Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- ◆ Polarity: Color band denotes cathode end
- ◆ Weight: 0.003 ounce, 0.093 gram



**DO-214AA (SMB)**



## Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbols	SNOA	SNOB	SNOD	SNOG	SNOJ	SNOK	SNOM	Units	
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	Volts	
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	Volts	
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	Volts	
Maximum average forward rectified current at $T_L=100^\circ\text{C}$	$I_{F(AV)}$					1.5				Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) $T_L=100^\circ\text{C}$	$I_{FSM}$					50.0				Amps
Maximum instantaneous forward voltage at 1.5A	$V_F$					1.15				Volts
Maximum DC reverse current at rated DC blocking voltage	$I_R$					1.0 125				$\mu\text{A}$
Typical reverse recovery time at $I_L=0.5\text{A}$ , $I_F=1.0\text{A}$ , $I_R=0.25\text{A}$	$t_{rr}$					1.0				$\mu\text{s}$
Typical junction capacitance at 4.0V, 1MHz	$C_J$					30				pF
Typical thermal resistance (NOTE 1)	$R_{\theta JA}$ $R_{\theta JL}$					53 16				$^\circ\text{C/W}$
Operating junction temperature range	$T_J$					-55 to +150				$^\circ\text{C}$
Storage temperature range	$T_{STG}$					-55 to +150				$^\circ\text{C}$

**Notes:** 1. Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.3 x 0.3" (8.0 x 8.0mm) copper pad areas

## RATINGS AND CHARACTERISTIC CURVES

