

## FEATURES

- Plastic package has underwriters laboratory flammability Classification 94V-0
- Low profile surface mount package
- Built-in strain relief
- Fast switching for high efficiency
- Glass passivated chip junction
- High temperature soldering 250°C/10 second at terminals

## MECHANICAL DATA

- Case: JEDED DO-214AA molded plastic over glass passivated chip
- Terminals: Solder plated, solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified

## MAXIMUM RATINGS & THERMAL CHARACTERISTICS

	SYMBOLS	RS 3AB	RS 3BB	RS 3DB	RS 3GB	RS 3JB	RS 3KB	RS 3MB	UNIT
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 $T_L=90^\circ\text{C}$	$I_{F(AV)}$					3.0			Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method) $T_L=90^\circ\text{C}$	$I_{FSM}$					100			Amps
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$				55				°C/W
	$R_{\theta JL}$				18				
Operating junction and Storage Temperature Range	$T_J, T_{STG}$				-55 to +150				°C

## ELECTRICAL CHARACTERISTICS

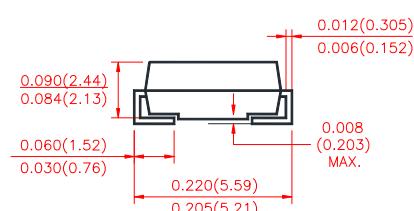
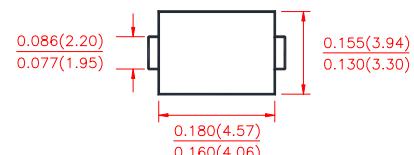
	SYMBOLS	RS 3AB	RS 3BB	RS 3DB	RS 3GB	RS 3JB	RS 3KB	RS 3MB	UNIT
Maximum Instantaneous Forward Voltage at 3.0A	$V_F$				1.30				Volts
Maximum DC Reverse Current at rated DC Blocking Voltage	$I_R$	$T_A = 25^\circ\text{C}$			5.0				μA
			$T_A = 125^\circ\text{C}$		50				
Typical Reverse Recovery Time at $I_F=0.5\text{A}$ , $I_R=1.0\text{A}$ , $I_{RR}=0.25\text{A}$	$t_{rr}$			150		250	500		ns

### Notes:

1. Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B. with  $0.27 \times 0.27$ " (7.0 × 7.0mm) copper pad areas.

VOLTAGE RANGE 50 to 1000 Volts  
CURRENT 3.0 Ampere

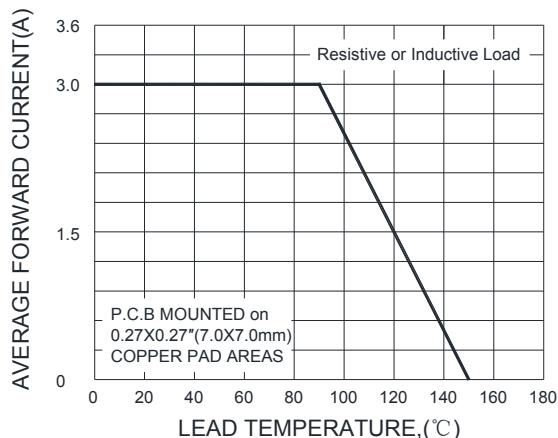
### DO-214AA(SMB)



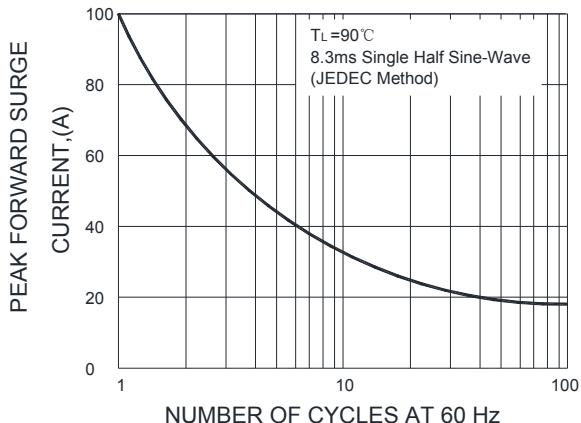
Dimensions in inches and (millimeters)

## RATINGS AND CHARACTERISTIC CURVES

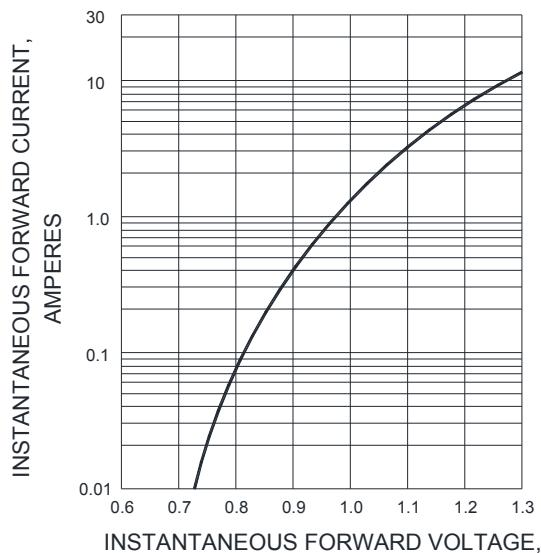
F1G.1-FORWARD CURRENT DERATING CURVE



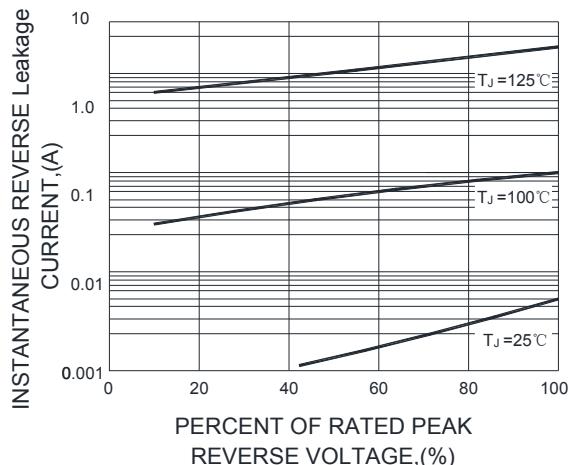
F1G.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



F1G.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



F1G.4-TYPICAL REVERSE CHARACTERISTICS



SYMBOLS	RS3AB	RS3BB	RS3DB	RS3GB	RS3JB	RS3KB	RS3MB
MARKING	RS3A	RS3B	RS3D	RS3G	RS3J	RS3K	RS3M

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