

## Features

- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ High temperature metallurgically bonded construction
- ◆ Low forward voltage drop
- ◆ Glass passivated pellet chip junction
- ◆ Low leakage current
- ◆ High temperature soldering guaranteed: 260°C/10



## Mechanical Data

- ◆ Case: JEDEC SMA(DO-214AC) molded plastic
- ◆ Terminals: Plated axial leads, solderable per MIL-STD-750, method 2026
- ◆ Polarity: Color band denotes cathode end
- ◆ Mounting Position: Any

## Maximum Ratings & Thermal Characteristics (TA=25°C unless otherwise noted )

Parameter	Symbol	M1	M2	M3	M4*	M5	M6	M7*	Unit
Marking Code		M1	M2	M3	M4	M5	M6	M7	
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	$I_{F(AV)}$	1							A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	$I_{FSM}$	30							A
Thermal resistance from junction <sup>(1)</sup>	$R_{\theta JA}$	75							°C/W
Operating junction and storage temperature range	$T_J, T_{STG}$	-55 to +150							°C

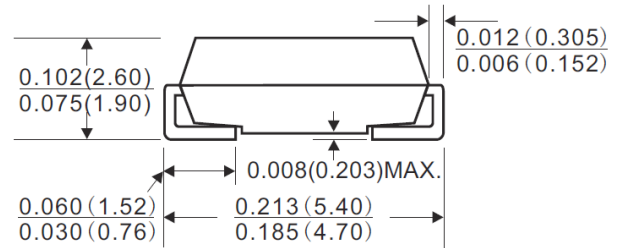
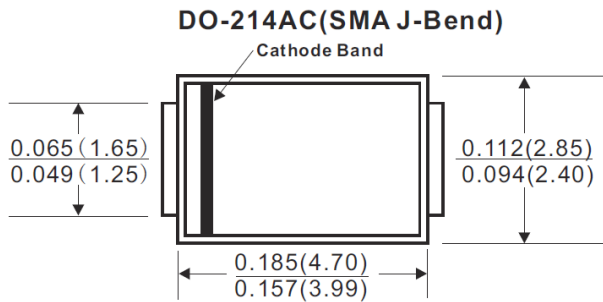
Note :1. 8.0mm<sup>2</sup> (.013mm thick) land areas

2. “\*” Stand for commonly used models

## Electrical Characteristics (TA=25°C unless otherwise noted )

Parameter	Symbol	M1	M2	M3	M4	M5	M6	M7	Unit
Maximum instantaneous forward voltage at 1.0A	$V_F$	1.1							V
Maximum DC reverse current $T_A = 25^\circ\text{C}$ at Rated DC blocking voltage $T_A = 125^\circ\text{C}$	$I_R$	5 50							$\mu\text{A}$
Typical junction capacitance at 4.0 V, 1MHz	$C_J$	15							pF

## Dimensions (DO-214AC)



Dimensions in inches and(millimeters)

## Characteristic Curves (TA=25°C unless otherwise noted )

Fig.1 Forward Current Derating Curve

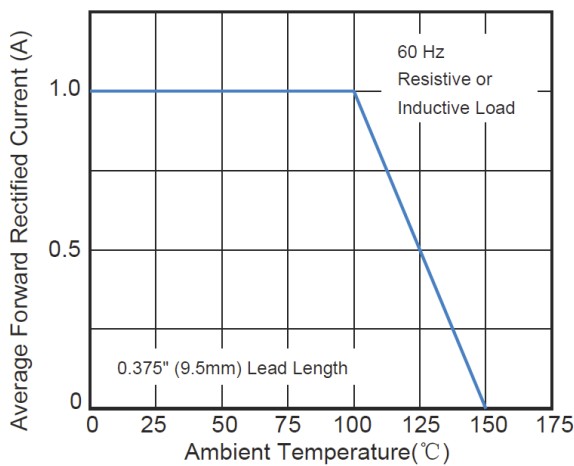


Fig.2 Typical Instantaneous Reverse Characteristics

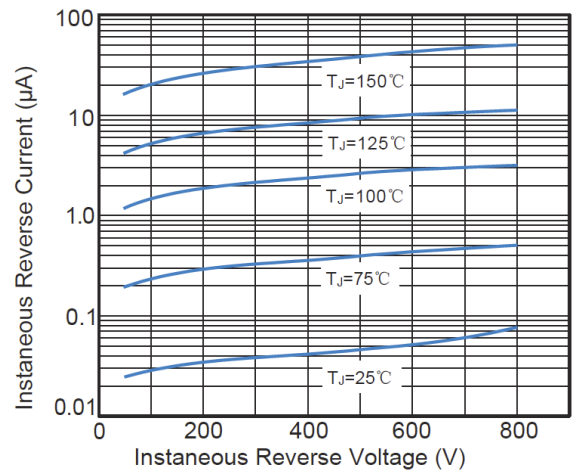


Fig.3 Typical Forward Characteristics

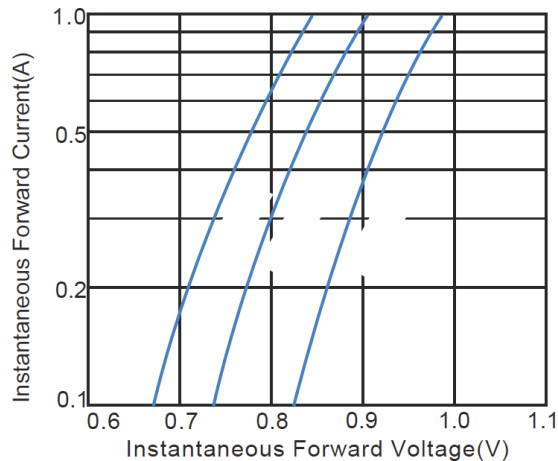
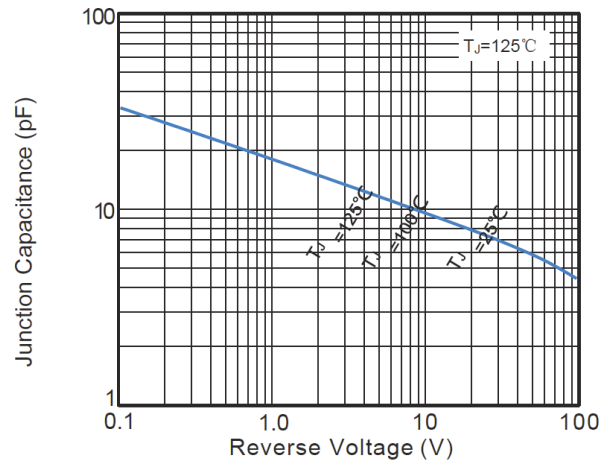
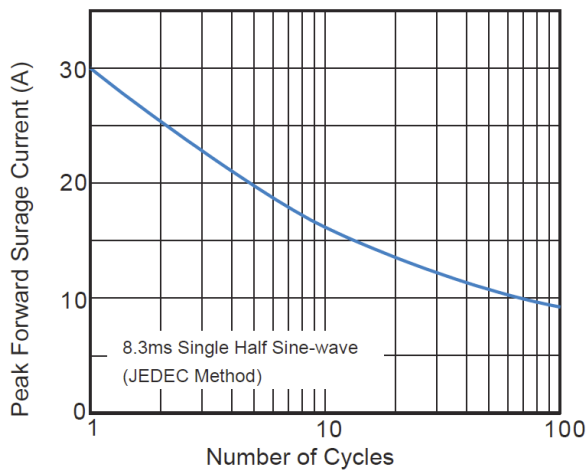


Fig.4 Typical Junction Capacitance



## Characteristic Curves (TA=25°C unless otherwise noted )

Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



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