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℃/10

DO-214AC (SMA)

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℃ 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-wavesuperimposed on rated load	I_{FSM}	30							A
Thermal resistance from junction(1)	$R_{\theta JA}$	75							℃/W
Operating junction and storage temperature range	T_J,T_{STG}	-55 to +150							℃

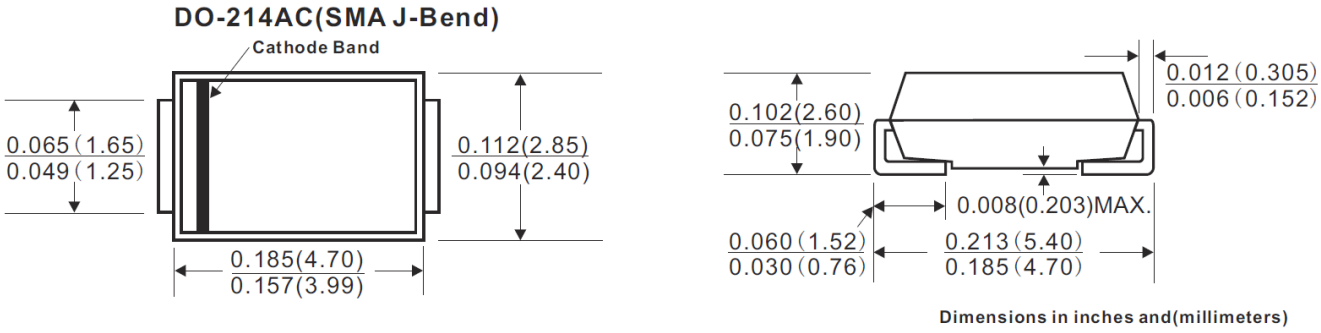
Note :1. 8.0mm2 (.013mm thick) land areas

2. "* "Stand for commonly used models

Electrical Characteristics(TA=25℃ 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 ℃ at Rated DC blocking voltage T_A = 125℃	I_R	5 50							μA
Typical junction capacitance at 4.0 V ,1MHz	C_J	15							pF

Dimensions (DO-214AC)



Characteristic Curves (TA=25℃ unless otherwise noted)

Fig.1 Forward Current Derating Curve

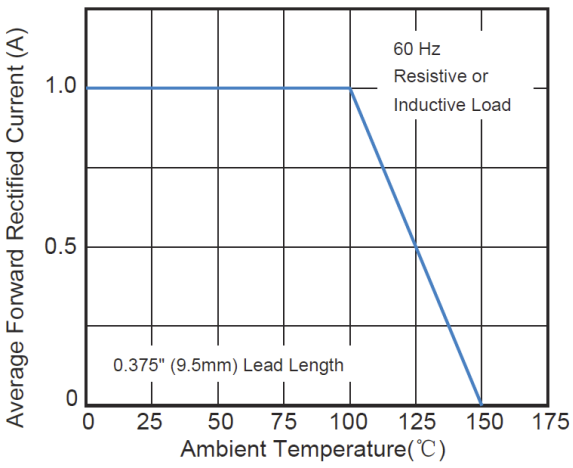


Fig.2 Typical Instaneous Reverse Characteristics

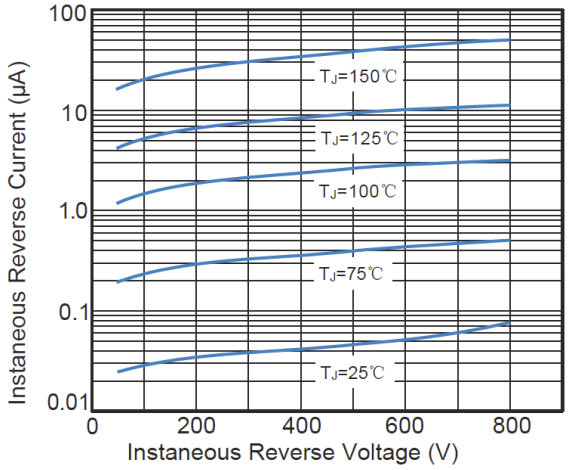


Fig.3 Typical Forward Characteristics

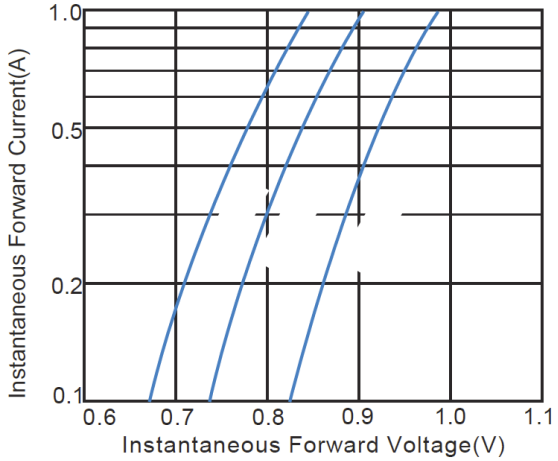
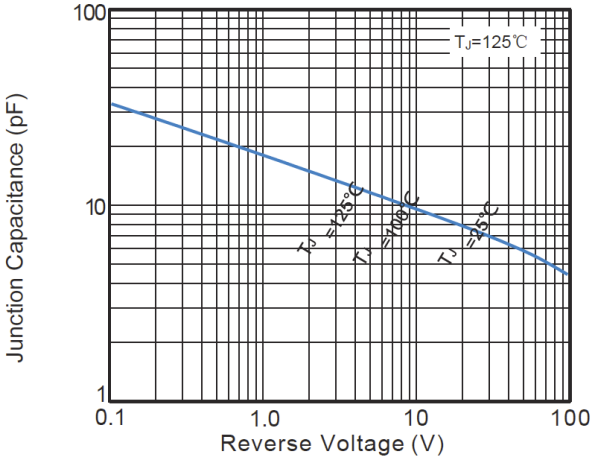


Fig.4 Typical Junction Capacitance



Characteristic Curves (TA=25℃ unless otherwise noted)

Fig.5 Maximum Non-Repetitive Peak Forward Surge Current