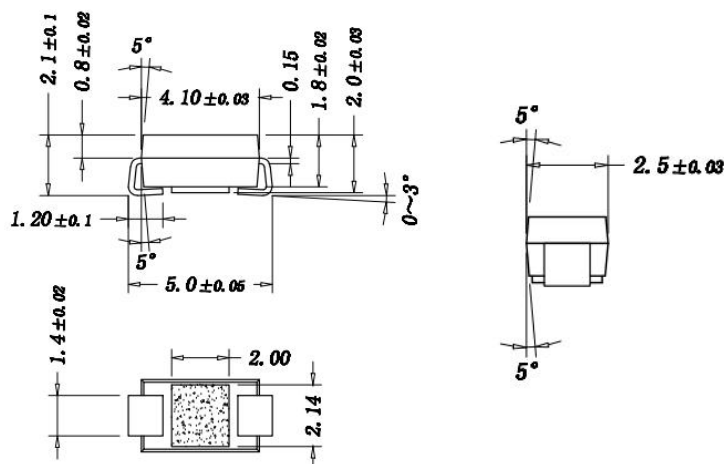


Major Ratings and Characteristics

$I_{F(MV)}$	2A
V_{RRM}	50V to 1000V
I_{FSM}	50A
I_R	5 μ A
V_F	1.1V
T_{JMAX}	150°C

DO-214AC/SMA



Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Idea for printed circuit board
- Glass Passivated Pellet Junction Chip
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 250°C/10 seconds at terminals

Mechanical Data

Case : JEDEC DO-214AC/SMA Molded plastic body

Terminals : Solder plated, solderable per MIL-STD-750, Method 2026

Polarity : Polarity symbol marking on body

Mounting Position : Any

Weight : 0.0023 ounce, 0.07 grams : 0.0019 ounce, 0.055 grams

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 current derate by 20%.

Type Number	SYMBOL	S2A	S2B	S2D	S2G	S2J	S2K	S2M	unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	140	420	560	700	V
Maximum DC blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .at TA =55°C	$I_{F(AV)}$	2							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50.0							A
Maximum Forward Voltage at 1.5A DC	V_F	1.1							V
Maximum DC Reverse Current @TA =25°C At rated DC blocking voltage @TA=100°C	I_R	5.0							μA
		100.0							
Typical Junction Capacitance (Note1)	C_j	25							pF
Typical Thermal Resistance (Note 2)	$R_{(JA)}$	6565							°C /W
Storage Temperature	T_{STG}	-55 to +150							°C
Operation Junction Temperature	T_J	-55 to +150							°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. P.C.B. mounted with 2.0" x2.0" (5.0x5.0cm) copper pad areas



Ratings And Characteristic Curves

Fig.1 Forward Current Derating Curve

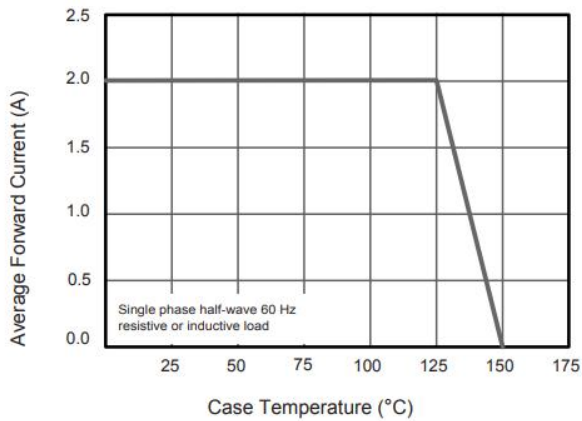


Fig.2 Typical Reverse Characteristics

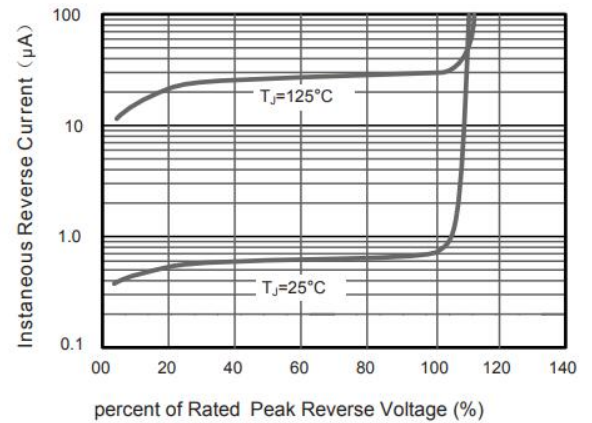


Fig.3 Typical Forward Characteristic

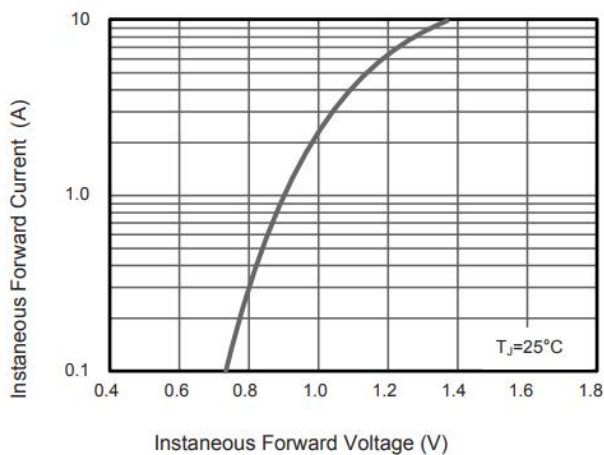


Fig.4 Typical Junction Capacitance

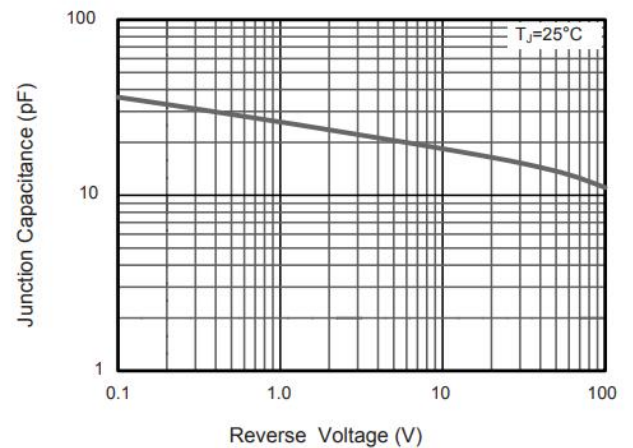


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

