





FEATURES

- * Ideal for surface mount applications
- * Easy pick and place
- * Built-in strain relief
- * High surge current capability

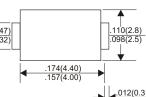
MECHANICAL DATA

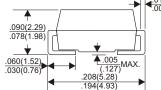
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solder plated, solderable per MIL-STD-202F, method 208 guranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any * Weight: 0.063 gram

VOLTAGE RANGE 2000 Volts **CURRENT**

1.5 Ampere

DO-214AC(SMA)





Dimensions in inches and (millimeters)

■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbols	SM520	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	2000	٧
Maximum Average Forward Rectified Current at T_c = 100 °C	I _{F(AV)}	1.5	А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	50	А
Maximum Instantaneous Forward Voltage at 1.5A	V _F	1.15	٧
Maximum Reverse Current $T_J = 25 ^{\circ}\text{C}$ $T_J = 125 ^{\circ}\text{C}$	I _R	5 50	μΑ
Typical Junction Capacitance 1)	C _j	20	pF
Typical Thermal Resistance ²⁾	R _{θJA}	95	°C/W
Operating and Storage Temperature Range	T_j , T_{stg}	-55 ~ +150	°C

Measured at 1 MHz and applied reverse voltage of 4 V D.C P.C.B. mounted with 0.2 X 0.2" (5 X 5 mm) copper pad areas.

RATING AND CHARACTERISTIC CURVES (SM520)

Fig.1 Forward Current Derating Curve

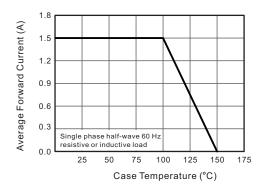


Fig.2 Typical Reverse Characteristics

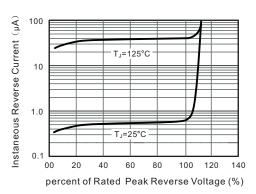


Fig.3 Typical Instaneous Forward Characteristics

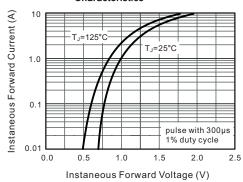


Fig.4 Typical Junction Capacitance

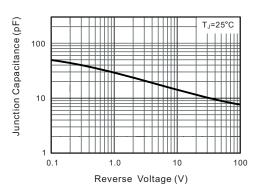


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

