

SIDACTOR

FEATURES

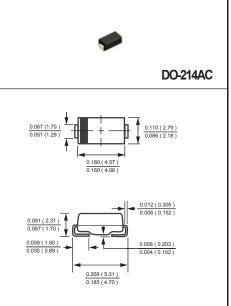
- * Low switching noise
- * Low forward voltage drop
- * High current capability
- * High switching capability * High surge capabitity
- * High reliability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.09 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



Dimensions in inches and (millimeters)

MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

RATINGS	SYMBOL	SMA3100A	UNITS
Peak One-Cycle Surge Current (Note 1)	I _{TSM}	50	Amps
Off-state Capacitance (Note 2)	Co	85	рF

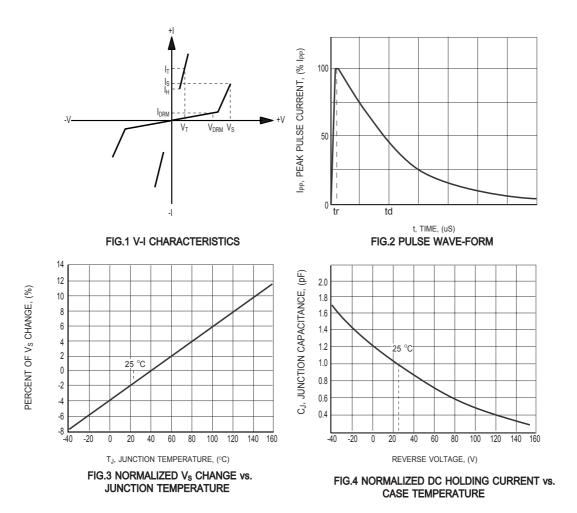
ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

CHARACTERISTICS	SYMBOL	SMA3100A	UNITS
Minimum On-state Voltage at 1.0A	VT	4	Volts
Peak Off-state Voltage @VDRM= 275V	I _{DRM}	5	uA
Switching Voltage @IS= 800mA (Note 3)	Vs	350	V
Holding Current	Ι _Η	150	mA

NOTES : 1. Surge rating test standard : 10/100uS. 2. Off-state capacitance is measured at 10KHz @0.3V with a DC48V bias. 3. Vs is measured at 100V/uS. 4. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

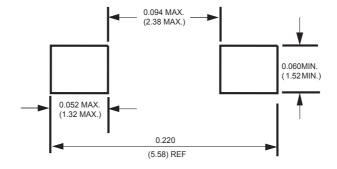
2006-12

RATING AND CHARACTERISTICS CURVES (SMA3100A)





Mounting Pad Layout



Dimensions in inches and (millimeters)



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