

SIDACTOR

FEATURES

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

MECHANICAL DATA

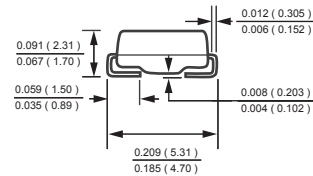
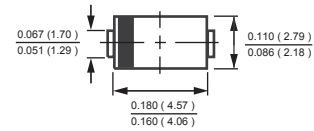
- * Case: Molded plastic
- * Epoxy: Device has UL flammability classification 94V-0
- * Lead: MIL-STD-202E method 208C guaranteed
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.09 gram

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%.



DO-214AC



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)	C _O	85	pF

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

CHARACTERISTICS	SYMBOL	SMA3100A	UNITS
Minimum On-state Voltage at 1.0A	V _T	4	Volts
Peak Off-state Voltage @V _{DRM} = 275V	I _{DRM}	5	uA
Switching Voltage @I _S = 800mA (Note 3)	V _S	350	V
Holding Current	I _H	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. V_S is measured at 100V/uS.
4. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

RATING AND CHARACTERISTICS CURVES (SMA3100A)

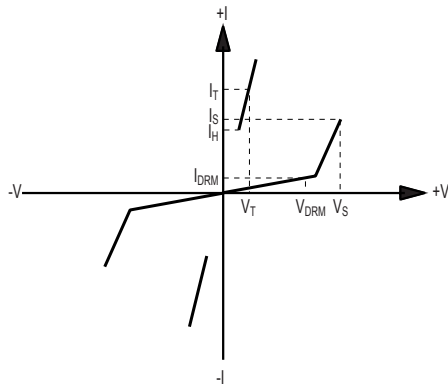


FIG.1 V-I CHARACTERISTICS

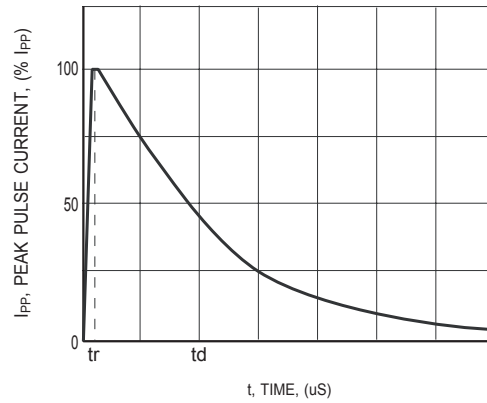


FIG.2 PULSE WAVE-FORM

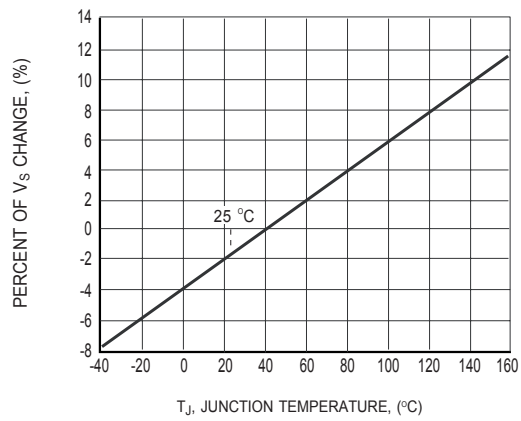


FIG.3 NORMALIZED V_S CHANGE vs. JUNCTION TEMPERATURE

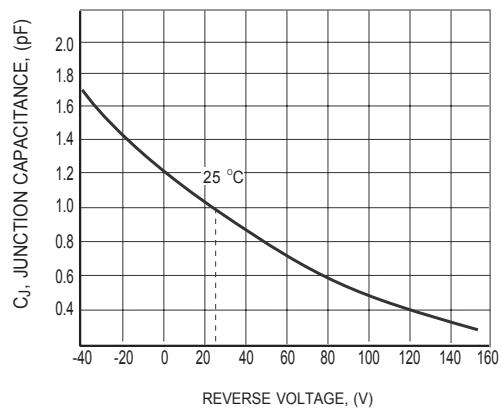
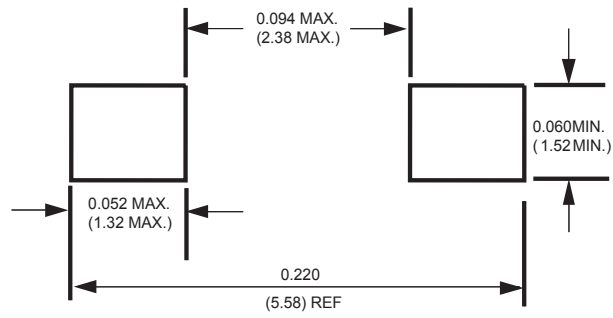


FIG.4 NORMALIZED DC HOLDING CURRENT vs. CASE TEMPERATURE

Mounting Pad Layout



Dimensions in inches and (millimeters)

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