RECTRON SEMICONDUCTOR
TECHNICAL SPECIFICATION

SMA3100A

SIDACTOR

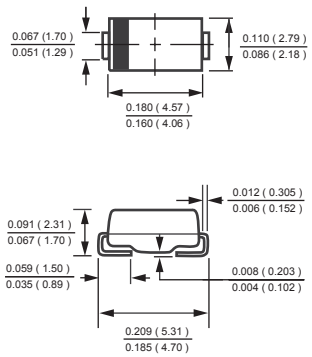
FEATURES
* Low switching noise
* Low forward voltage drop
* High current capability
* High switching capability
* High surge capabitity
* High reliability

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%.



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. Vs is measured at 100V/uS.
4. “Fully ROHS compliant”, “100% Sn plating (Pb-free)”.

2006-12

RATING AND CHARACTERISTICS CURVES (SMA3100A)

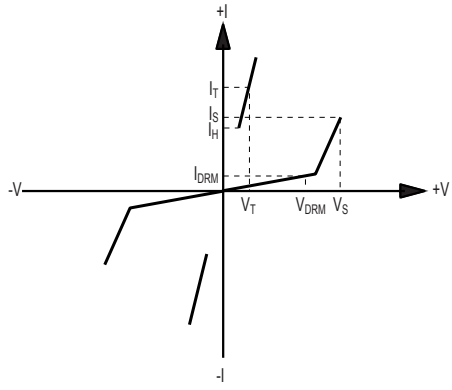


FIG.1 V-I CHARACTERISTICS

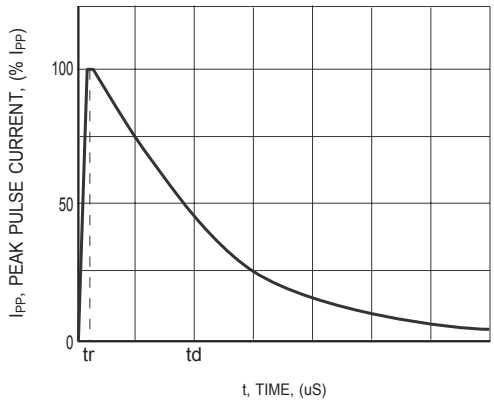


FIG.2 PULSE WAVE-FORM

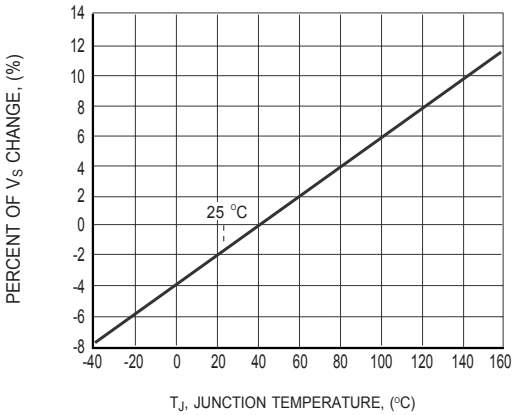


FIG.3 NORMALIZED V_S CHANGE vs. JUNCTION TEMPERATURE

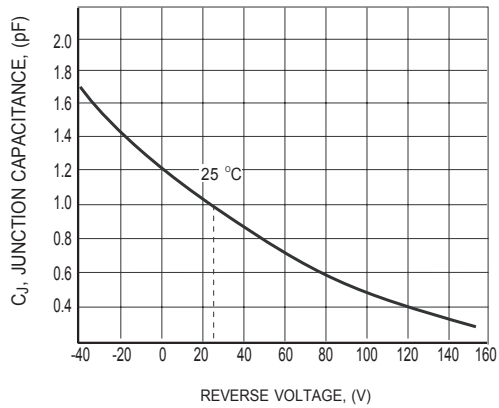
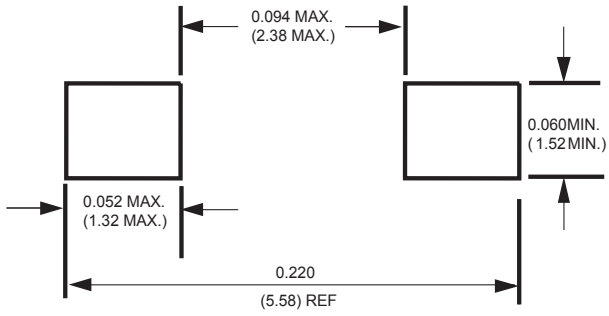


FIG.4 NORMALIZED DC HOLDING CURRENT vs. CASE TEMPERATURE

Mounting Pad Layout



Dimensions in inches and (millimeters)

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