RECTRON SEMICONDUCTOR
TECHNICAL SPECIFICATION

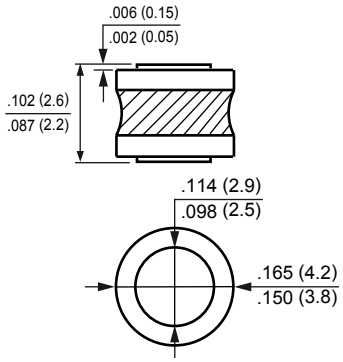
PR058A THRU PR320A

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

CELL



Dimensions in inches and (millimeters)

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%.

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

RATINGS	SYMBOL	PR058A	PR065A	PR075A	PR160A	PR190A	PR220A	PR275A	PR320A	UNITS
Off-state Capacitance (Note 1)	C_O	85			38			35		pF
Peak One-Cycle Surge Current (Note 2)	I_{TSM}	50								Amps

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

CHARACTERISTICS	SYMBOL	PR058A	PR065A	PR075A	PR160A	PR190A	PR220A	PR275A	PR320A	UNITS
Peak Off-state Voltage @I_{DRM}= 5uA	V_{DRM}	58	65	75	160	190	220	275	320	V
Switching Voltage @I_S= 800mA (Note 3)	V_S	77	88	98	220	260	300	350	400	V
Minimum On-state Voltage at 1.0A	V_T	4								Volts
Holding Current	I_H	150								mA

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

2007-11

RATING AND CHARACTERISTICS CURVES (PR058A THRU PR320A)

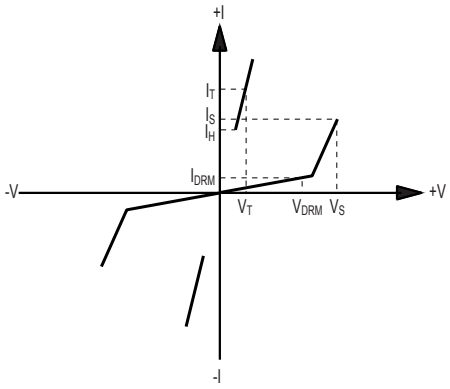


FIG.1 V-I CHARACTERISTICS

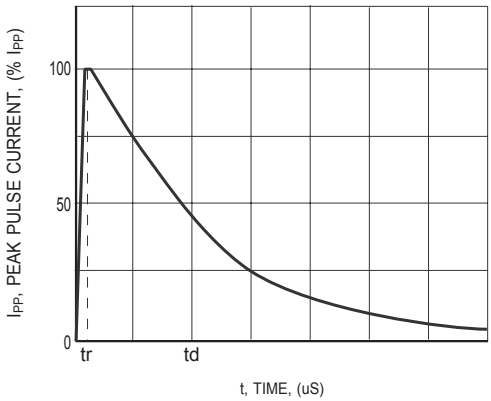


FIG.2 PULSE WAVE-FORM

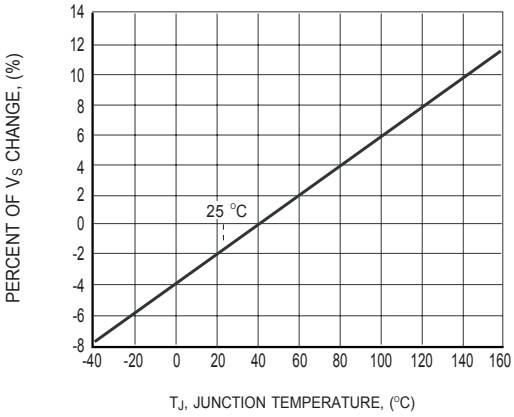


FIG.3 NORMALIZED V_S CHANGE vs. JUNCTION TEMPERATURE

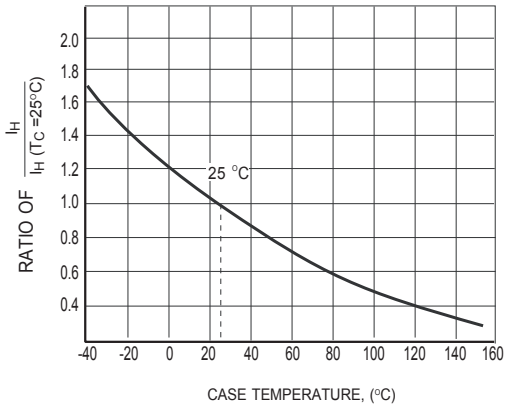


FIG.4 NORMALIZED DC HOLDING CURRENT vs. CASE TEMPERATURE

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