

**SIDACTOR**

**FEATURES**

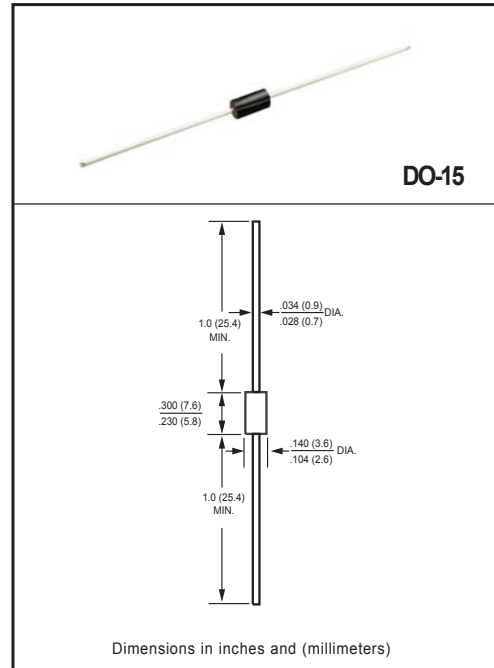
- \* Low switching noise
- \* Low forward voltage drop
- \* High current capability
- \* High switching capability
- \* High surge capability
- \* High reliability

**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: 0.38 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%.



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

RATINGS	SYMBOL	RL058A	RL065A	RL075A	RL160A	RL190A	RL220A	RL275A	RL320A	UNITS	
Off-state Capacitance (Note 1)	C <sub>O</sub>	85			38			35		pF	
Peak One-Cycle Surge Current (Note 2)	I <sub>TSM</sub>	50									Amps

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

CHARACTERISTICS	SYMBOL	RL058A	RL065A	RL075A	RL160A	RL190A	RL220A	RL275A	RL320A	UNITS	
Peak Off-state Voltage @I <sub>DRM</sub> = 5uA	V <sub>DRM</sub>	58	65	75	160	190	220	275	320	V	
Switching Voltage @I <sub>S</sub> = 800mA (Note 3)	V <sub>S</sub>	77	88	98	220	260	300	350	400	V	
Minimum On-state Voltage at 1.0A	V <sub>T</sub>	4									Volts
Holding Current	I <sub>H</sub>	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. V<sub>S</sub> is measured at 100V/uS.  
4. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

## RATING AND CHARACTERISTICS CURVES ( RL058A THRU RL320A )

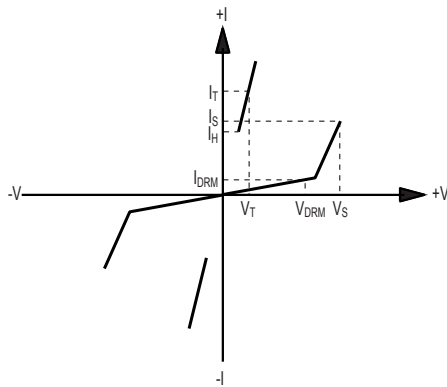


FIG.1 V-I CHARACTERISTICS

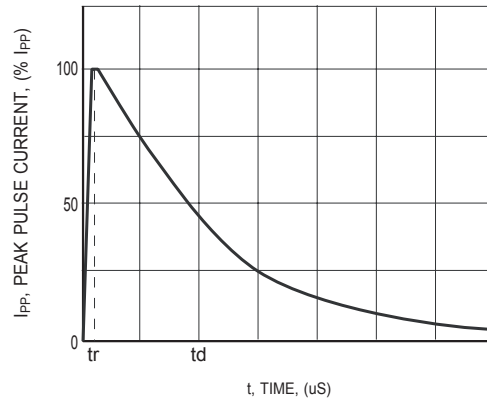


FIG.2 PULSE WAVE-FORM

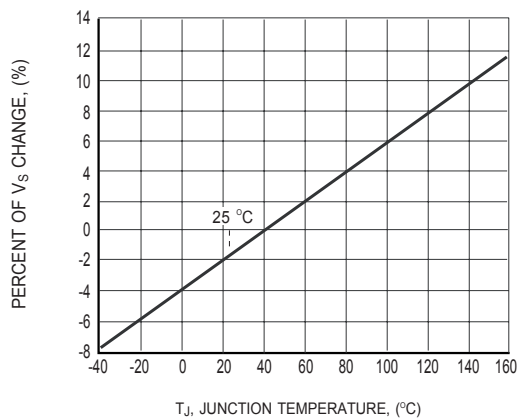


FIG.3 NORMALIZED  $V_S$  CHANGE vs. JUNCTION TEMPERATURE

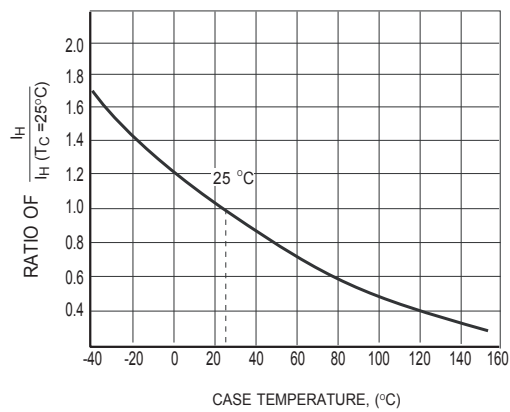


FIG.4 NORMALIZED DC HOLDING CURRENT vs. CASE TEMPERATURE

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