



SILICON RECTIFIER

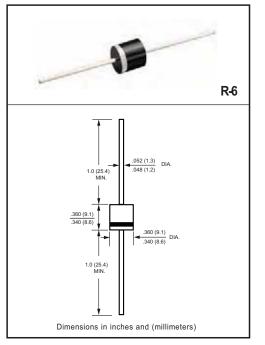


FEATURES

- * High surge current capability
- * Low leakage
- * Low forward voltage drop
- * High current capability
- * Low lost

MECHANICAL DATA

- * Case: Molded plastic black body
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 2.08 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%.

| RATINGS | SYMBOL | 10A05 | 10A1 | 10A2 | 10A4 | 10A6 | 10A8 | 10A10 | UNITS |
|--|----------------------|--------------|------|------|------|------|------|------------------|-------|
| Maximum Recurrent Peak Reverse Voltage | VRRM | 1000 | | | | | | | Volts |
| Maximum RMS Voltage | V _{RMS} | 700 | | | | | | | Volts |
| Maximum DC Blocking Voltage | VDC | | 1000 | | | | | | Volts |
| Maximum Average Forward Rectified Current at TA = 50°C | Ι _Ο | | 10 | | | | | | Amps |
| Peak Forward Surge Current IFM(surge): 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | I _{FSM} | 400 | | | | | | Amps | |
| Typical Current Squared Time | I ² T | 664 | | | | | | A ² S | |
| Typical Thermal Resistance (Note 3) | $R_{\theta JA}$ | 20 | | | | | | ° C/W | |
| Typical Thermal Resistance (Note 4) | $R_{\theta JL}$ | 4 | | | | | | °C/W | |
| Typical Thermal Resistance (Note 5) | $R_{\theta JC}$ | 6 | | | | | | °C/W | |
| Typical Junction Capacitance (Note 1) | CJ | 135 | | | | | | pF | |
| Operating and Storage Temperature Range | Tj, T _{STG} | -55 to + 150 | | | | | | ٥C | |

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

| CHARACTERISTICS | SYMBOL | 10A05 | 10A1 | 10A2 | 10A4 | 10A6 | 10A8 | 10A10 | UNITS | |
|---|-------------------------|-------|------|------|------|------|------|-------|-------|-------|
| Maximum Forward Voltage at 10A DC | VF | 1.1 | | | | | | | Volts | |
| Maximum DC Average Reverse Current at | @T _A = 25°C | | | | | 5 | | | | uAmps |
| Rated DC Blocking Voltage | @T _A = 150°C | IR | 2 | | | | | | | mAmps |
| Maximum Full Load Reverse Current Average .375" (9.5mm) Lead Length at TL=75°C | 'K | | | | 50 | | | | uAmps | |

NOTES : 1. Measured at 1.0 MHz and applied average voltage of 4.0VDC

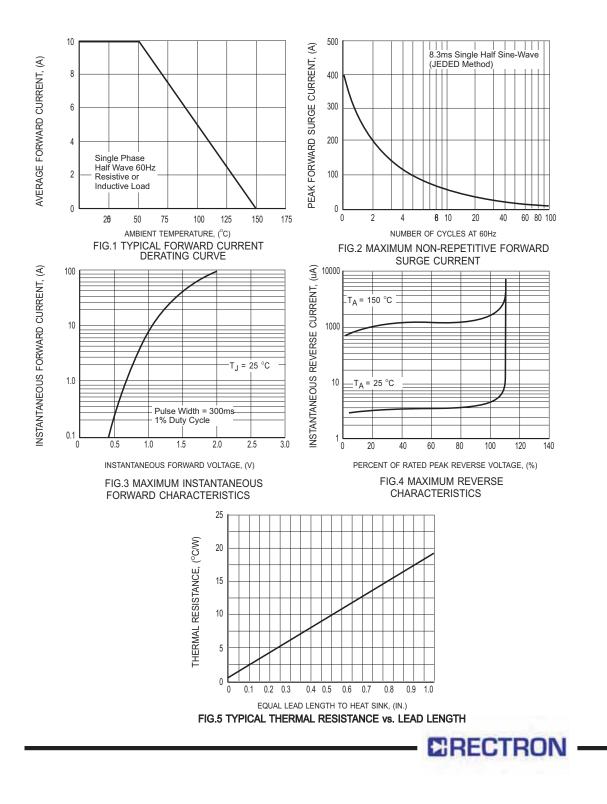
2. " ROHS compliant".

3. Thernal Resistance: At 9.5mm lead lengths, PCB mounted.

4. Thernal Resistance Junction to lead

5. Thernal Resistance Junction to dice

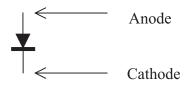
2019-02 REV:B



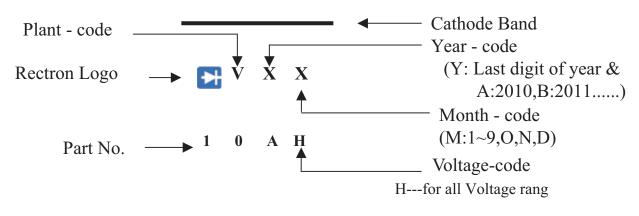


Attachment information about 10AX

1. Internal Circuit



2. Marking on the body



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

BULK PACK

| PACKAGE | PACKING CODE | EA PER BOX | INNER BOX SIZE (mm) | CARTON SIZE (mm) | EA PER CARTON | GROSS WEIGHT(Kg) |
|---------|--------------|------------|------------------------|---------------------|---------------|---------------------|
| R-6/R-7 | -В | 200 | 300*73*40 | 347*320*271 | 4,800 | 12.93/14.57 |

REEL PACK

| PACKAGE | PACKING CODE | EA PER REEL | EA PER INNER BOX | COMPONENT SPACE (mm) | TAPE SPACE (mm) | REEL DIA (mm) | CARTON SIZE (mm) | EA PER CARTON | GROSS WEIGHT(Kg) |
|---------|-----------------|----------------|------------------------|----------------------------|--------------------|------------------|---------------------|------------------|---------------------|
| R-6/R-7 | -T | 800 | 800 | 9.5 | 52 | 330 | 355*350*335 | 3,200 | 9.72/9.91 |

AMMO PACK

| PACKAGE | PACKING | REEL | COMPONENT | TAPE SPACE | BOX SIZE | CARTON | CARTON | GROSS |
|---------|---------|--------|-----------|------------|------------|-------------|--------|-------------|
| | CODE | (EA) | SPACE(mm) | (mm) | (mm) | SIZE(mm) | (EA) | WEIGHT (Kg) |
| R-6/R-7 | -F | 300 | 9.5 | 52 | 255*73*100 | 400*268*225 | 3,000 | 8.5/8.7 |



DISCLAIMER NOTICE

Rectron Inc reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. Rectron Inc or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on RECTRON data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. Rectron Inc does not assume any liability arising out of the application or use of any product or circuit.

Rectron products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of Rectron Inc. Customers using or selling Rectron components for use in such applications do so at their own risk and shall agree to fully indemnify Rectron Inc and its subsidiaries harmless against all claims, damages and expenditures.

