Central™
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Manufacturers of World Class Discrete Semiconductors
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# CRSH2 SERIES

## SCHOTTKY BARRIER RECTIFIER
## 2.0 AMPS, 20 THRU 100 VOLTS

**JEDEC DO-15 CASE**

DESCRIPTION

The CENTRAL SEMICONDUCTOR CRSH2 Series types are Schottky Barrier Rectifiers mounted in an axial lead epoxy case using metal to silicon junction to yield low forward voltage drop and instantaneous reverse recovery times.

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

| | SYMBOL | CRSH2 -2 | CRSH2 -3 | CRSH2 -4 | CRSH2 -5 | CRSH2 -6 | CRSH2 -8 | CRSH2 -10 | UNITS |
|---|---|---|---|---|---|---|---|---|---|
| Peak Repetitive Reverse Voltage | $V_{RRM}$ | 20 | 30 | 40 | 50 | 60 | 80 | 100 | V |
| DC Blocking Voltage | $V_R$ | 20 | 30 | 40 | 50 | 60 | 80 | 100 | V |
| RMS Reverse Voltage | $V_{R(RMS)}$ | 14 | 21 | 28 | 35 | 42 | 56 | 70 | V |
| Average Forward Current ($T_L$=75°C) | $I_O$ | | | 2.0 | | | | | A |
| Peak Forward Surge Current (8.3ms) | $I_{FSM}$ | | | 50 | | | | | A |
| Junction Temperature | $T_J$ | | | -65 to +125 | | | | | °C |
| StorageTemperature | $T_{stg}$ | | | -65 to +125 | | | | | °C |
| Thermal Resistance | $\Theta_{JA}$ | | | 35 | | | | | °C/W |

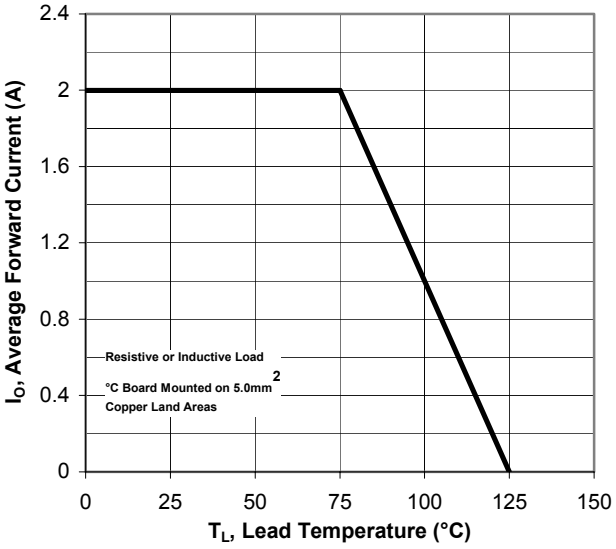
ELECTRICAL CHARACTERISTICS ($T_A$=25°C unless otherwise noted)

| SYMBOL | TEST CONDITIONS | MIN | TYP | MAX | UNITS |
|---|---|---|---|---|---|
| $I_R$ | $V_R$=Rated $V_{RRM}$ | | | 0.5 | mA |
| $I_R$ | $V_R$=Rated $V_{RRM}$, $T_A$=100°C | | | 20 | mA |
| $V_F$ | $I_F$=2.0A (20V THRU 40V) | | | 0.5 | V |
| $V_F$ | $I_F$=2.0A (50V AND 60V) | | | 0.7 | V |
| $V_F$ | $I_F$=2.0A (80V AND 100V) | | | 0.85 | V |
| $C_J$ | $V_F$=4.0V, f=1.0MHz | | 170 | | pF |

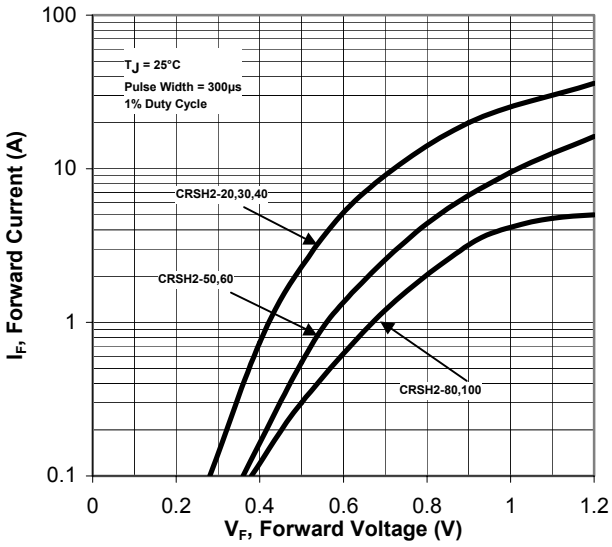
(SEE REVERSE SIDE)

# CRSH2 SERIES RATING AND CHARACTERISTIC CURVES

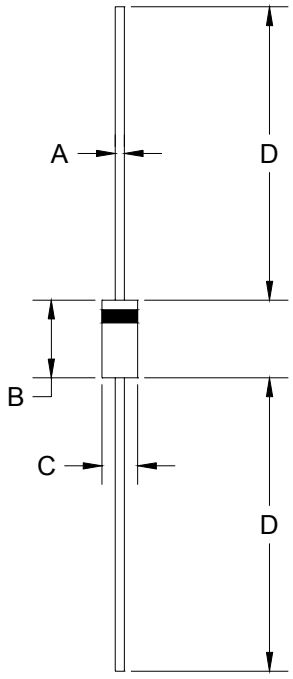
**Forward Current Derating Curve**




**Typical Forward Voltage**




Mechanical Drawing: DO-15




R1

| DIMENSIONS | | | | |
|---|---|---|---|---|
| | INCHES | | MILLIMETERS | |
| SYMBOL | MIN | MAX | MIN | MAX |
| A | 0.028 | 0.034 | 0.71 | 0.86 |
| B | 0.230 | 0.300 | 5.84 | 7.62 |
| C | 0.104 | 0.140 | 2.64 | 3.56 |
| D | 1.000 | - | 25.40 | - |

DO-15 (REV: R1)

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