

CentralTM Semiconductor Corp.

145 Adams Avenue, Hauppauge, NY 11788 USA
Tel: (631) 435-1110 • Fax: (631) 435-1824

Manufacturers of World Class Discrete Semiconductors

CRSH2-2
CRSH2-4
CRSH2-5

SCHOTTKY BARRIER RECTIFIER
2.0 AMPS, 20 THRU 50 VOLTS

JEDEC DO-15 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR CRSH2-2 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. This series also features an extremely high surge rating; higher than most 3 Amp Schottky rectifiers.

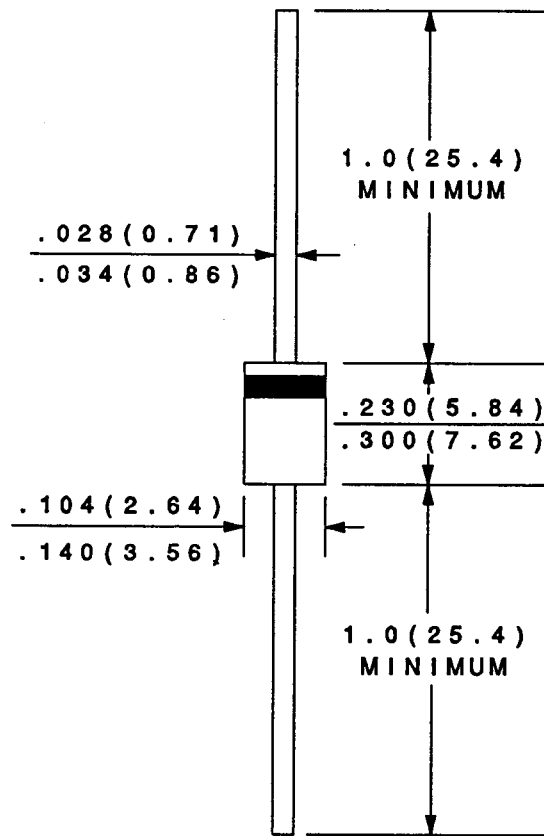
MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$ unless otherwise noted)

| | <u>SYMBOL</u> | <u>CRSH2-2</u> | <u>CRSH2-4</u> | <u>CRSH2-5</u> | <u>UNITS</u> |
|---|----------------|----------------|----------------|----------------|------------------|
| Peak Repetitive Reverse Voltage | V_{RRM} | 20 | 40 | 50 | V |
| DC Blocking Voltage | V_R | 20 | 40 | 50 | V |
| RMS Reverse Voltage | $V_{R(RMS)}$ | 14 | 28 | 35 | V |
| Average Forward Current ($T_L = 100^\circ\text{C}$) | I_O | | 2.0 | | A |
| Peak Forward Surge Current (8.3ms) | I_{FSM} | | 100 | | A |
| Operating and Storage Junction Temperature | T_J, T_{stg} | -65 to +150 | | | $^\circ\text{C}$ |

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise noted)

| <u>SYMBOL</u> | <u>TEST CONDITIONS</u> | <u>MIN</u> | <u>TYP</u> | <u>MAX</u> | <u>UNITS</u> |
|---------------|--|------------|------------|------------|--------------|
| I_R | $V_R = \text{Rated } V_{RRM}$ | | 0.05 | 1.0 | mA |
| I_R | $V_R = \text{Rated } V_{RRM}, T_A = 100^\circ\text{C}$ | | 0.50 | 10 | mA |
| V_F | $I_F = 0.1\text{A}$ | | 0.33 | 0.38 | V |
| V_F | $I_F = 1.0\text{A}$ | | 0.39 | 0.45 | V |
| V_F | $I_F = 2.0\text{A}$ | | 0.45 | 0.55 | V |
| V_F | $I_F = 3.1\text{A}$ | | 0.50 | 0.75 | V |

SEE REVERSE FOR OUTLINE DRAWING



All Dimensions in Inches (mm).

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www.centrasemi.com