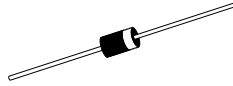


### CRSH2 SERIES

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



**CASE DO-15**

### DESCRIPTION:

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

**MARKING: FULL PART NUMBER**

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

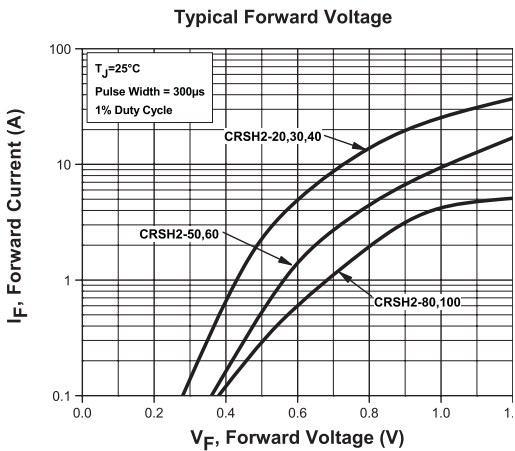
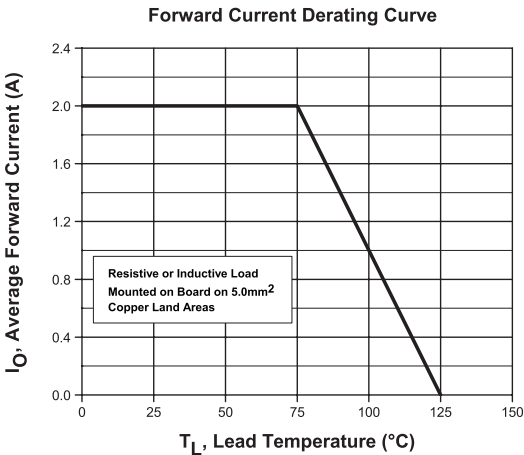
		CRSH2-							
	SYMBOL	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>8</u>	<u>10</u>	UNITS
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	V
DC Blocking Voltage	V <sub>R</sub>	20	30	40	50	60	80	100	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	14	21	28	35	42	56	70	V
Average Forward Current (T <sub>L</sub> =75°C)	I <sub>O</sub>				2.0				A
Peak Forward Surge Current (8.3ms)	I <sub>FSM</sub>				50				A
Operating and Storage Junction Temperature	T <sub>J</sub> , T <sub>stg</sub>				-65 to +125				°C
Thermal Resistance	Θ <sub>JA</sub>				35				°C/W

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

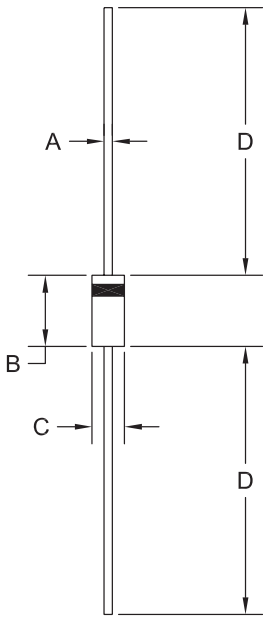
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
$I_R$	$V_R=\text{Rated } V_{RRM}$		0.5	mA
$I_R$	$V_R=\text{Rated } V_{RRM} (T_A=100^{\circ}\text{C})$		20	mA
$V_F$	$I_F=2.0\text{A} (20\text{V}, 30\text{V}, 40\text{V})$		0.5	V
$V_F$	$I_F=2.0\text{A} (50\text{V}, 60\text{V})$		0.7	V
$V_F$	$I_F=2.0\text{A} (80\text{V}, 100\text{V})$		0.85	V
$C_J$	$V_R=4.0, f=1.0\text{MHz}$	170		pF

**CRSH2 SERIES**

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



**DO-15 CASE - MECHANICAL OUTLINE**



R1

DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	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)

**MARKING: FULL PART NUMBER**

R2 (24-October 2008)

## OUTSTANDING SUPPORT AND SUPERIOR SERVICES



---

### PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

---

### DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2<sup>nd</sup> day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

---

### CONTACT US

#### Corporate Headquarters & Customer Support Team

Central Semiconductor Corp.  
145 Adams Avenue  
Hauppauge, NY 11788 USA  
Main Tel: (631) 435-1110  
Main Fax: (631) 435-1824  
Support Team Fax: (631) 435-3388  
[www.centrasemi.com](http://www.centrasemi.com)

**Worldwide Field Representatives:**  
[www.centrasemi.com/wwreps](http://www.centrasemi.com/wwreps)

**Worldwide Distributors:**  
[www.centrasemi.com/wwdistributors](http://www.centrasemi.com/wwdistributors)

---

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: [www.centrasemi.com/terms](http://www.centrasemi.com/terms)