

CXSH-4

SURFACE MOUNT SILICON  
SCHOTTKY RECTIFIER



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**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CXSH-4 type is a Schottky barrier rectifier mounted in an epoxy molded case using a metal to silicon junction to yield low forward voltage drop. This device utilizes a single chip with anode connections made to PIN 1 and PIN 3.

**MARKING: FULL PART NUMBER**



SOT-89 CASE

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

	<b>SYMBOL</b>	<b>UNITS</b>
Peak Repetitive Reverse Voltage	$V_{RRM}$	V
DC Blocking Voltage	$V_R$	V
RMS Reverse Voltage	$V_{R(RMS)}$	V
Average Forward Current	$I_O$	A
Peak Forward Surge Current, $t_p=8.3\text{ms}$	$I_{FSM}$	A
Operating and Storage Junction Temperature	$T_J, T_{Stg}$	$^\circ\text{C}$

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

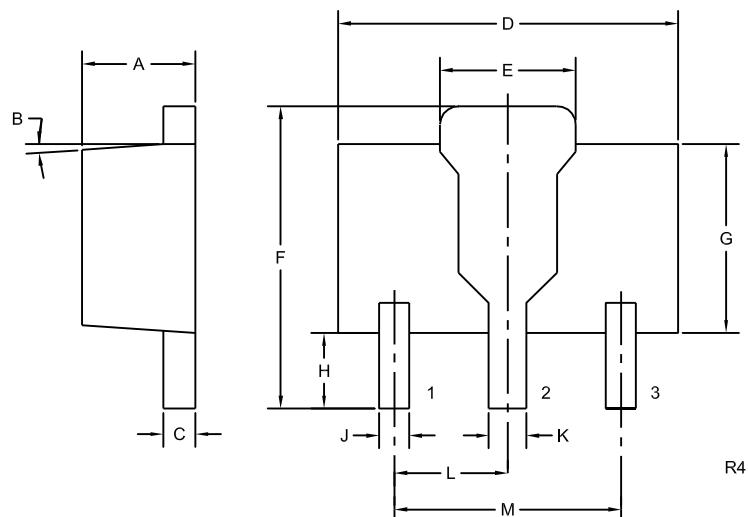
<b>SYMBOL</b>	<b>TEST CONDITIONS</b>	<b>MAX</b>	<b>UNITS</b>
$I_R$	$V_R=40\text{V}$	1.0	mA
$I_R$	$V_R=40\text{V}, T_A=100^\circ\text{C}$	10	mA
$V_F$	$I_F=1.0\text{A}$	0.55	V

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SOT-89 CASE - MECHANICAL OUTLINE

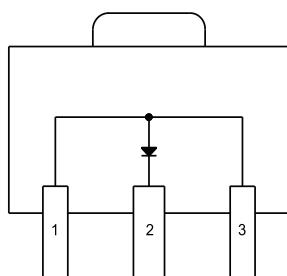


(Bottom View)

**LEAD CODE:**

- 1) Anode
- 2) Cathode
- 3) Anode

**MARKING:**  
**FULL PART NUMBER**



Bottom View  
(Tab not shown)

SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.055	0.067	1.40	1.70
B	4°		4°	
C	0.014	0.018	0.35	0.46
D	0.173	0.185	4.40	4.70
E	0.064	0.074	1.62	1.87
F	0.146	0.177	3.70	4.50
G	0.090	0.106	2.29	2.70
H	0.028	0.051	0.70	1.30
J	0.014	0.019	0.36	0.48
K	0.017	0.023	0.44	0.58
L	0.059		1.50	
M	0.118		3.00	

SOT-89 (REV: R4)

R8 (22-December 2015)

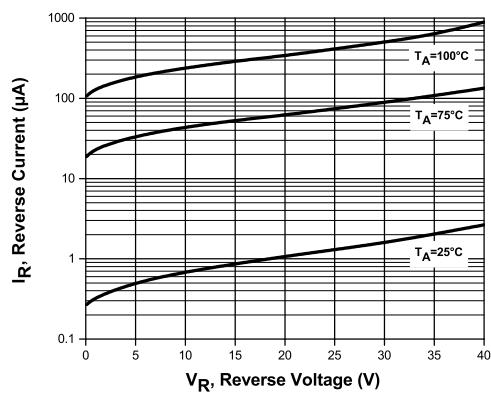
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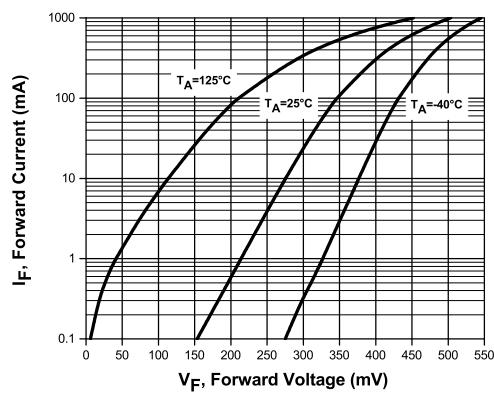
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**TYPICAL ELECTRICAL CHARACTERISTICS**

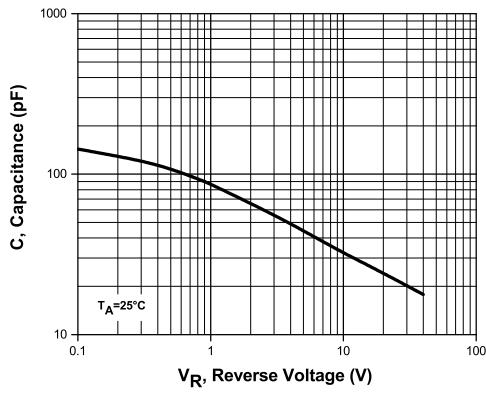
**Leakage Current**



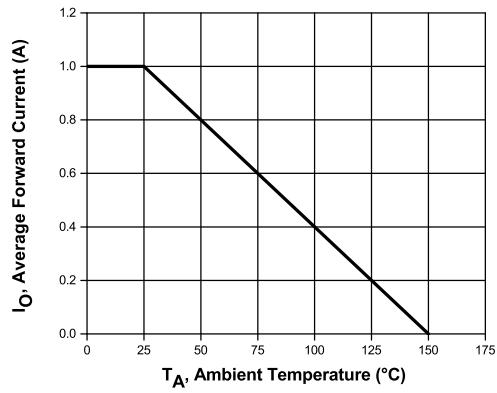
**Forward Voltage**



**Capacitance**



**Current Derating**



R8 (22-December 2015)

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### 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

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### DESIGNER SUPPORT/SERVICES

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- Free quick ship samples (2<sup>nd</sup> day air)
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- 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

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