

**CRSH3 SERIES
SCHOTTKY BARRIER RECTIFIER**

3.0 AMP, 20 THRU 100 VOLTS



JEDEC DO-201AD CASE

CentralTM
Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CRSH3 Series types are 3.0 Amp, Glass Passivated Schottky Barrier Rectifiers mounted in an axial-lead epoxy case using a metal to silicon junction to yield low forward voltage drops and instantaneous reverse recovery time.

MARKING CODES: SEE MARKING CODES ON FOLLOWING PAGE

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

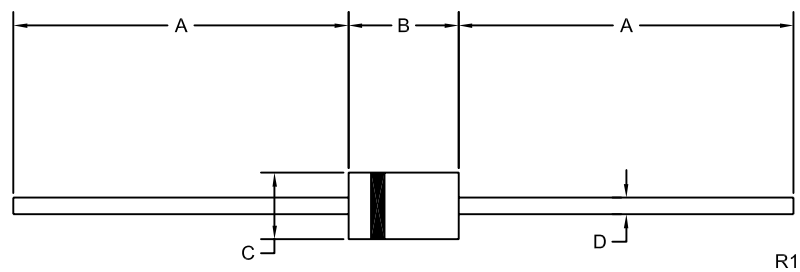
	SYMBOL	CRSH3							UNITS
		<u>-2</u>	<u>-3</u>	<u>-4</u>	<u>-5</u>	<u>-6</u>	<u>-8</u>	<u>-10</u>	
Peak Repetitive Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	V
DC Blocking Voltage	V_R	20	30	40	50	60	80	100	V
RMS Reverse Voltage	$V_{R(RMS)}$	14	21	28	35	42	56	70	V
Average Forward Current	I_O	3.0							A
Peak Forward Surge Current (8.3ms)	I_{FSM}	80							A
Storage Temperature	T_{stg}	-65 to +150							$^{\circ}\text{C}$
Junction Temperature	T_J	-65 to +125							$^{\circ}\text{C}$
Thermal Resistance	θ_{JA}	20							$^{\circ}\text{C/W}$

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_R	$V_R=\text{Rated } V_{RRM}$			0.5	mA
I_R	$V_R=\text{Rated } V_{RRM}, T_A=100^{\circ}\text{C}$			30	mA
V_F	$I_F=3.0\text{A}$ (20V thru 40)			0.55	V
V_F	$I_F=3.0\text{A}$ (50V and 60V)			0.75	V
V_F	$I_F=3.0\text{A}$ (80V and 100V)			0.85	V
C_J	$V_F=4.0\text{V}, f=1.0\text{MHz}$		250		pF

R1 (13-October 2006)

JEDEC DO-201AD - MECHANICAL OUTLINE



DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	1.000	-	25.40	-
B	0.283	0.375	7.20	9.53
C	0.189	0.210	4.80	5.33
D	0.047	0.052	1.20	1.32

DO-201AD (REV: R1)

Device	Marking Code
CRSH3-2	CENTRAL CRSH3-2
CRSH3-3	CENTRAL CRSH3-3
CRSH3-4	CENTRAL CRSH3-4
CRSH3-5	CENTRAL CRSH3-5
CRSH3-6	CENTRAL CRSH3-6
CRSH3-8	CENTRAL CRSH3-8
CRSH3-10	CENTRAL CRSH3-10

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