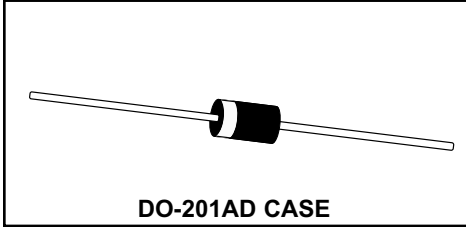


**CR5-010 SERIES  
GLASS PASSIVATED JUNCTION  
GENERAL PURPOSE  
SILICON RECTIFIER  
5.0 AMP, 100 THRU 1200 VOLTS**



# Central<sup>TM</sup>

**Semiconductor Corp.**

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CR5-010 Series types are 5.0 Amp, Glass Passivated Junction, Silicon Rectifiers which are high quality, well constructed, highly reliable components designed for use in all types of military, commercial, industrial, entertainment, computer, and automotive applications.

**THIS DEVICE IS MANUFACTURED WITH A GLASS PASSIVATED CHIP FOR OPTIMUM RELIABILITY.**

**MARKING CODES: SEE MARKING CODES ON FOLLOWING PAGE**

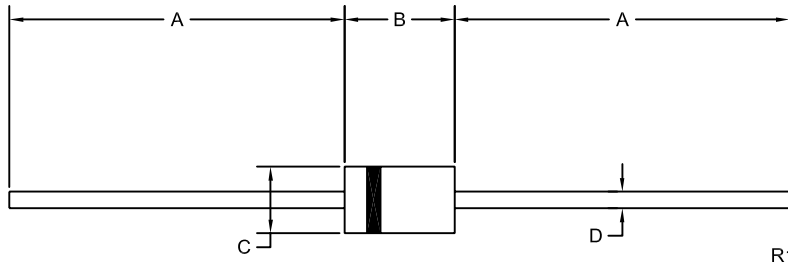
**MAXIMUM RATINGS:** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

	SYMBOL	CR5 <u>-010</u>	CR5 <u>-020</u>	CR5 <u>-040</u>	CR5 <u>-060</u>	CR5 <u>-080</u>	CR5 <u>-100</u>	CR5 <u>-120</u>	UNITS
Peak Repetitive Reverse Voltage	$V_{RRM}$	100	200	400	600	800	1000	1200	V
DC Blocking Voltage	$V_R$	100	200	400	600	800	1000	1200	V
RMS Reverse Voltage	$V_{R(RMS)}$	70	140	280	420	560	700	840	V
Average Forward Current ( $T_A=75^\circ\text{C}$ )	$I_O$				5.0				A
Peak Forward Surge Current	$I_{FSM}$				200				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)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
$I_R$	$V_R = \text{Rated } V_{RRM}$			5.0	$\mu\text{A}$
$I_R$	$V_R = \text{Rated } V_{RRM}, T_A = 100^\circ\text{C}$			100	$\mu\text{A}$
$V_F$	$I_F = 5.0\text{A}$			1.2	V
$C_J$	$V_R = 4.0\text{V}, f = 1.0\text{MHz}$ (CR5-010 THRU CR5-040)		50		pF
$C_J$	$V_R = 4.0\text{V}, f = 1.0\text{MHz}$ (CR5-060 THRU CR5-120)		25		pF

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
CR5-010	CENTRAL CR5-010
CR5-020	CENTRAL CR5-020
CR5-040	CENTRAL CR5-040
CR5-060	CENTRAL CR5-060
CR5-080	CENTRAL CR5-080
CR5-100	CENTRAL CR5-100
CR5-120	CENTRAL CR5-120

R2 (10-March 2006)