

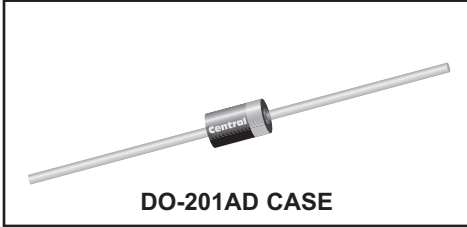
**CR5F-010 SERIES**  
**SILICON**  
**GLASS PASSIVATED JUNCTION**  
**FAST RECOVERY RECTIFIER**  
**5.0 AMP, 100 THRU 1000 VOLT**



[www.centrasemi.com](http://www.centrasemi.com)

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CR5F-010 series types are axial lead silicon rectifiers designed for DC power supply and inverter applications where fast recovery times are needed.



**MARKING: FULL PART NUMBER**

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

	SYMBOL	CR5F						UNITS
		-010	-020	-040	-060	-080	-100	
Peak Repetitive Reverse Voltage	$V_{RRM}$	100	200	400	600	800	1000	V
DC Blocking Voltage	$V_R$	100	200	400	600	800	1000	V
RMS Reverse Voltage	$V_{R(RMS)}$	70	140	280	420	560	700	V
Average Forward Current ( $T_A=55^\circ\text{C}$ )	$I_O$	5.0						A
Peak Forward Surge Current	$I_{FSM}$	125						A
Operating and Storage Junction Temperature	$T_J, T_{stg}$	-65 to +150						$^\circ\text{C}$

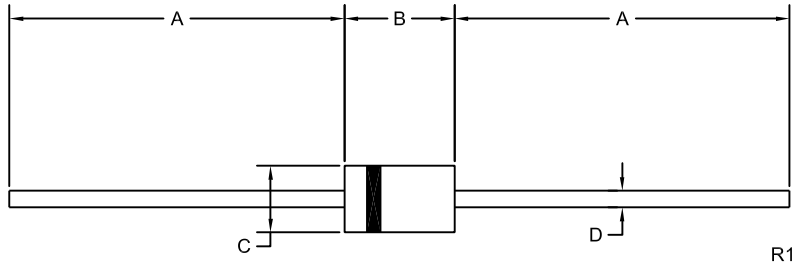
**ELECTRICAL CHARACTERISTICS:** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

SYMBOL	TEST CONDITIONS	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	$\mu\text{A}$
$V_F$	$I_F=5.0\text{A}$	1.3	V
$t_{rr}$	$I_F=0.5\text{A}, I_R=1.0\text{A}, I_{rr}=0.25\text{A}$ (100V, 200V, 400V)	150	ns
$t_{rr}$	$I_F=0.5\text{A}, I_R=1.0\text{A}, I_{rr}=0.25\text{A}$ (600V)	250	ns
$t_{rr}$	$I_F=0.5\text{A}, I_R=1.0\text{A}, I_{rr}=0.25\text{A}$ (800V, 1000V)	500	ns

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**DO-201AD CASE - 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)

**MARKING: FULL PART NUMBER**

R3 (8-May 2013)