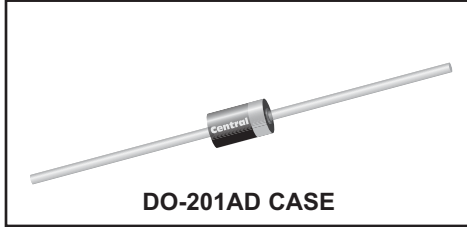


**CR3-005GPP SERIES**

**GLASS PASSIVATED JUNCTION  
GENERAL PURPOSE  
SILICON RECTIFIER  
3 AMP, 50 THRU 1200 VOLTS**



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



**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CR3-005GPP Series types are 3.0 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: FULL PART NUMBER**

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

		CR3 -005	CR3 -010	CR3 -020	CR3 -040	CR3 -060	CR3 -080	CR3 -100	CR3 -120	UNITS
	SYMBOL	GPP	GPP	GPP	GPP	GPP	GPP	GPP	GPP	
Peak Repetitive Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	1200	V
DC Blocking Voltage	$V_R$	50	100	200	400	600	800	1000	1200	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	840	V
Average Forward Current ( $T_A=55^\circ\text{C}$ )	$I_O$					3.0				A
Peak Forward Surge Current	$I_{FSM}$					150				A
Operating and Storage Junction Temperature	$T_J, T_{stg}$					-65 to +150				$^\circ\text{C}$
Thermal Resistance	$\theta_{JA}$					20				$^\circ\text{C/W}$

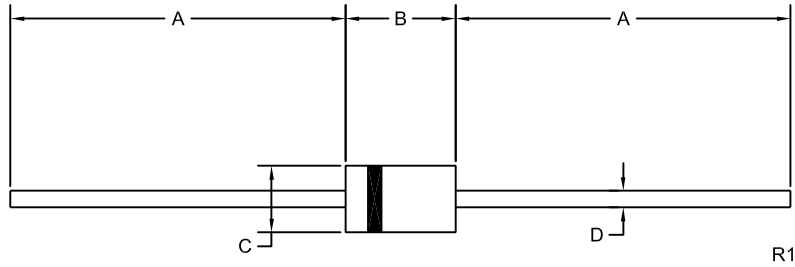
**ELECTRICAL CHARACTERISTICS:** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
$I_R$	$V_R=\text{Rated } V_{RRM}$		5.0	$\mu\text{A}$
$I_R$	$V_R=\text{Rated } V_{RRM}, T_A=100^\circ\text{C}$		100	$\mu\text{A}$
$V_F$	$I_F=3.0\text{A}$		1.2	V
$C_J$	$V_R=4.0\text{V}, f=1.0\text{MHz}$	30	50	pF

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DO-201AD CASE - MECHANICAL OUTLINE



SYMBOL	DIMENSIONS			
	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

R4 (24-October 2011)