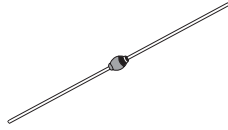


CPR4F-010 CPR4F-040
 CPR4F-020 CPR4F-060

**GLASS PASSIVATED
 FAST RECOVERY RECTIFIER
 3A, 100 THRU 600 VOLTS**



GPR-4AM CASE

CentralTM Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CPR4F-010 thru CPR4F-060 are silicon rectifiers manufactured in a hermetically sealed, glass passivated package designed for use in all types of commercial, industrial, entertainment and automotive applications where fast switching speeds are required.

MARKING: FULL PART NUMBER

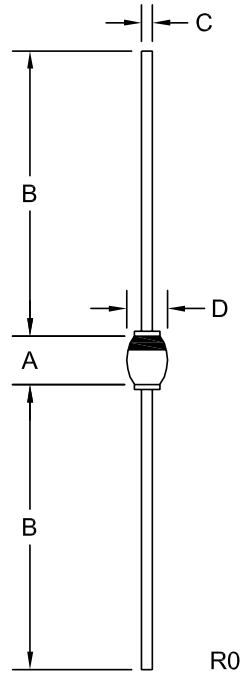
MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$ unless otherwise noted)

		<u>CPR4F</u>				
	SYMBOL	-010	-020	-040	-060	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	100	200	400	600	V
DC Blocking Voltage	V_R	100	200	400	600	V
RMS Reverse Voltage	$V_{R(RMS)}$	70	140	280	420	V
Average Forward Current, $T_A=50^\circ\text{C}$	I_O		3.0			A
Peak Forward Surge Current, $t_p=8.3\text{ms}$	I_{FSM}		100			A
Operating and Storage Junction Temperature	T_J, T_{stg}		-65 to +175			$^\circ\text{C}$
Thermal Resistance	Θ_{JA}		55			$^\circ\text{C/W}$

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	μA
I_R	$V_R=\text{Rated } V_{RRM}, T_A=100^\circ\text{C}$		100	μA
V_F	$I_F=3.0\text{A}$		1.3	V
C_J	$V_R=4.0\text{V}, f=1.0\text{MHz}$	50		pF
t_{rr}	$I_F=0.5\text{A}, I_R=1.0\text{A}, I_{rr}=0.25\text{A}$		250	ns

GPR-4AM - MECHANICAL OUTLINE



DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.165	0.189	4.20	4.80
B	1.024	---	26.00	---
C	0.037	0.042	0.95	1.06
D	0.130	0.175	3.30	4.45

GPR-4AM (REV: R0)

MARKING: FULL PART NUMBER

R0 (30-April 2008)