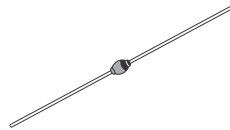


CPR5U-020
CPR5U-040
CPR5U-060

GLASS PASSIVATED ULTRA FAST
RECOVERY RECTIFIERS
5.0 AMP, 200 THRU 600 VOLTS



GPR-4AM CASE

CentralTM
Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CPR5U Series 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 ultra fast switching speeds are required.

MARKING: FULL PART NUMBER

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

	SYMBOL	-020	-040	-060	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	200	400	600	V
DC Blocking Voltage	V_R	200	400	600	V
RMS Reverse Voltage	$V_{R(RMS)}$	140	280	420	V
Average Forward Current	I_O		5.0		A
Peak Forward Surge Current, $t_p=8.3\text{ms}$	I_{FSM}		125		A
Operating and Storage Junction Temperature	T_J, T_{stg}		-65 to +175		$^\circ\text{C}$
Thermal Resistance	θ_{JA}		55		$^\circ\text{C/W}$

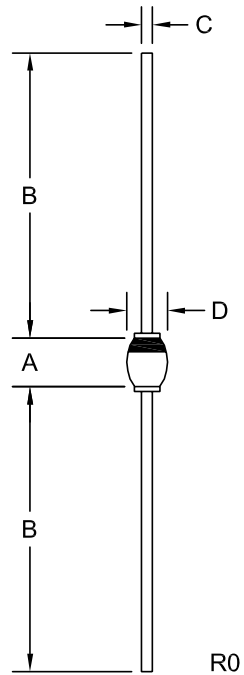
ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_R	$V_R=\text{Rated } V_{RRM}$		0.5	5.0	μA
I_R	$V_R=\text{Rated } V_{RRM}, T_A=100^\circ\text{C}$			50	μA
V_F	$I_F=3.0\text{A}$		1.10	1.25	V
V_F	$I_F=3.0\text{A}, T_A=100^\circ\text{C}$			1.15	V
V_F	$I_F=5.0\text{A}$		1.20	1.40	V
V_F	$I_F=5.0\text{A}, T_A=100^\circ\text{C}$			1.30	V
C_J	$V_R=4.0\text{V}, f=1.0\text{MHz}$			100	pF
t_{rr}	$I_F=0.5\text{A}, I_R=1.0\text{A}, I_{rr}=0.25\text{A}$		25	50	ns

R2 (6-May 2008)

**GLASS PASSIVATED ULTRA FAST
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5.0 AMP, 200 THRU 600 VOLTS**

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 CODE: FULL PART NUMBER

R2 (6-May 2008)