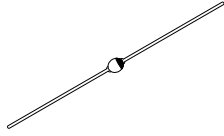


CPR1U-040

**GLASS PASSIVATED ULTRA FAST
RECOVERY RECTIFIER**



GPR-1A CASE

CentralTM
Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CPR1U-040 is a silicon rectifier 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 CODE: FULL PART NUMBER

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

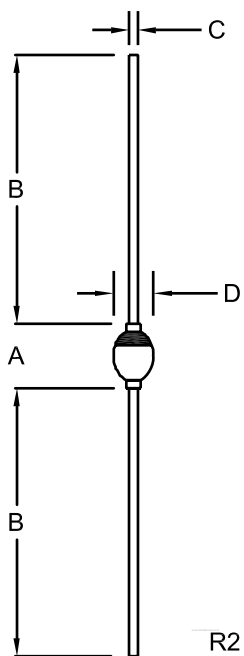
	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	400	V
DC Blocking Voltage	V_R	400	V
RMS Reverse Voltage	$V_{R(RMS)}$	280	V
Average Forward Current ($T_L=55^{\circ}\text{C}$)	I_O	1.5	A
Peak Forward Surge Current, $t_p=8.3\text{ms}$	I_{FSM}	50	A
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +175	$^{\circ}\text{C}$

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_R	$V_R=400\text{V}$			5.0	μA
I_R	$V_R=400\text{V}, T_A=100^{\circ}\text{C}$			100	μA
V_F	$I_F=1.5\text{A}$	—		1.6	V
C_J	$V_R=4.0\text{V}, f=1.0\text{MHz}$		35		pF
t_{rr}	$I_F=0.5\text{A}, I_R=1.0\text{A}, I_{rr}=0.25\text{A}$		25	35	ns

R0 (4-October 2007)

GPR-1A - MECHANICAL OUTLINE



DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	-	0.240	-	6.10
B	1.000	-	25.40	-
C	0.028	0.034	0.71	0.86
D	0.090	0.150	2.29	3.81

GPR-1A (REV: R2)

MARKING CODE: FULL PART NUMBER

R0 (4-October 2007)