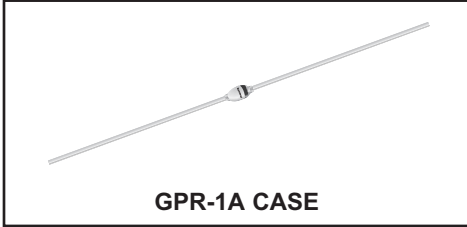


CPR1-010 SERIES
GLASS PASSIVATED SILICON RECTIFIERS
1.0 AMP, 100 THRU 1200 VOLT



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CPR1-010 series types are silicon rectifiers mounted in a hermetically sealed, glass passivated package, designed for general purpose applications where high reliability is desired.

MARKING: FULL PART NUMBER

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

	SYMBOL	CPR1 <u>-010</u>	CPR1 <u>-020</u>	CPR1 <u>-040</u>	CPR1 <u>-060</u>	CPR1 <u>-080</u>	CPR1 <u>-100</u>	CPR1 <u>-120</u>	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	1200	V
DC Blocking Voltage	V_R	100	200	400	600	800	1000	1200	V
RMS Reverse Voltage	$V_{R(RMS)}$	70	140	280	420	560	700	840	V
Average Forward Current ($T_A=75^\circ\text{C}$)	I_O				1.0				A
Peak Forward Surge Current	I_{FSM}				40				A
Operating and Storage Junction Temperature	T_J, T_{stg}			-65 to +175					$^\circ\text{C}$
Thermal Resistance	Θ_{JA}			40					$^\circ\text{C/W}$

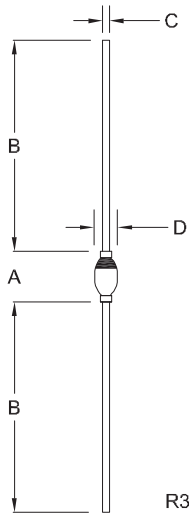
ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MAX	UNITS
I_R	V_R =Rated V_{RRM}	5.0	μA
I_R	V_R =Rated V_{RRM} , $T_A=150^\circ\text{C}$	100	μA
V_F	$I_F=1.0\text{A}$	1.1	V
C_J	$V_R=4.0\text{V}$, $f=1.0\text{MHz}$	15	pF
t_{rr}	$I_R=1.0\text{A}$, $I_F=0.5\text{A}$, $I_{rr}=0.25\text{A}$, $R_L=100\Omega$	2.0	μs

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GPR-1A CASE - MECHANICAL OUTLINE



SYMBOL	DIMENSIONS			
	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	0.070	0.150	1.80	3.81

GPR-1A (REV: R3)

MARKING: FULL PART NUMBER

R1 (28-February 2013)