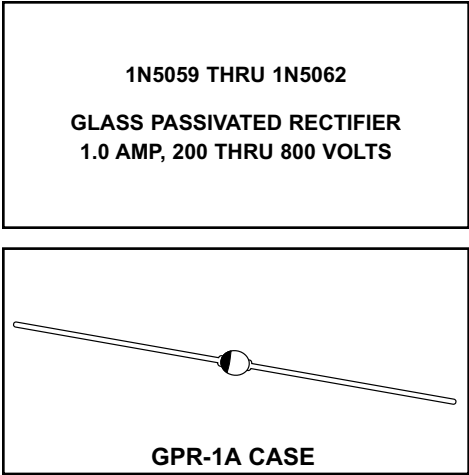




CentralTM

Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 1N5059 series types are silicon rectifiers manufactured in a hermetically sealed glass passivated package designed for general purpose applications where high reliability is desired. Higher voltage devices are available in the CPR1-010 series.

MARKING CODES: Full Part Number

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

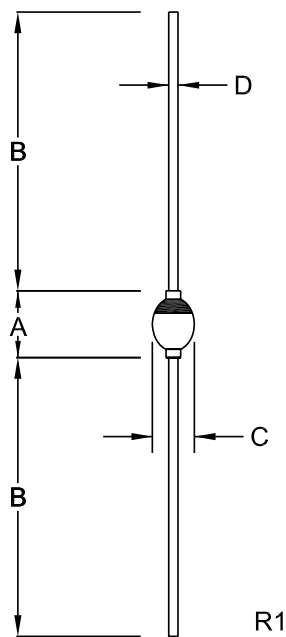
	SYMBOL	1N5059	1N5060	1N5061	1N5062	UNITS
Peak Reverse Voltage	V_{RRM}	200	400	600	800	V
DC Blocking Voltage	V_R	200	400	600	800	V
RMS Voltage	V_{RMS}	140	280	420	560	V
Average Forward Current($T_A=75^{\circ}\text{C}$)	I_O			1.0		A
Peak Forward Surge Current (8.3ms single half sine-wave on rated load)	I_{FSM}			50		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	$V_R=\text{Rated } V_{RRM}$	5.0	μA
I_R	$V_R=\text{Rated } V_{RRM}, T_A=175^{\circ}\text{C}$ (1N5059, 1N5060)	300	μA
I_R	$V_R=\text{Rated } V_{RRM}, T_A=175^{\circ}\text{C}$ (1N5061, 1N5062)	200	μA
V_F	$I_F=1.0\text{A}$	1.2	V
C_J	$V_R=4.0, f=1.0\text{MHz}$	15	pF

R3 (21-June 2005)

GPR-1A CASE - MECHANICAL OUTLINE



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

GPR-1A (REV: R1)

MARKING CODES:
Full Part Number

R3 (21-June 2005)