CPR5U-020 CPR5U-040 CPR5U-060

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





www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CPR5U-020, CPR5U-040, and CPR5U-060 are silicon rectifiers mounted in a hermetically sealed, glass passivated package, designed for commercial, industrial, entertainment, and automotive applications where ultra fast switching speeds are required.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T _A =25°C unless otherwis		se noted)		CPR5U		
		SYMBOL	<u>-020</u>	<u>-040</u>	<u>-060</u>	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		Ìo		5.0		Α
Peak Forward Surge Current, tp=8.3ms		I _{FSM}	125			Α
Operating and Storage Junction Temperature		T _J , T _{stq}	-65 to +175			°C
Thermal Resistance		Θ_{JA}		55		°C/W
ELECTRICA	AL CHARACTERISTICS: (TA=25°C t	unless otherwise	noted)			
SYMBOL	TEST CONDITIONS	TYP		MAX		UNITS
I_{R}	V _R =Rated V _{RRM}	0.5		5.0		μΑ
I_{R}	V _R =Rated V _{RRM} , T _A =100°C			50		μΑ
V_{F}	I _F =3.0A	1.10		1.25		V
V_{F}	I _F =3.0A, T _A =100°C			1.15		V
V_{F}	I _F =5.0A	1.20		1.40		V
V_{F}	I _F =5.0A, T _A =100°C			1.30		V
СЈ	V _R =4.0V, f=1.0MHz			100		pF
t _{rr}	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A	25		50		ns

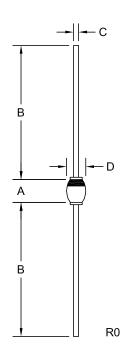
R3 (8-May 2013)

CPR5U-020 CPR5U-040 CPR5U-060



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

GPR-4AM CASE - MECHANICAL OUTLINE



DIMENSIONS								
	INCHES		MILLIMETERS					
SYMBOL	MIN	MAX	MIN	MAX				
Α	0.165	0.189	4.20	4.80				
В	1.024	_	26.00					
С	0.037	0.042	0.95	1.06				
D	0.130	0.175	3.30	4.45				

GPR-4AM (REV: R0)

R3 (8-May 2013)

www.centralsemi.com



OUTSTANDING SUPPORT AND SUPERIOR SERVICES

PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- · Inventory bonding
- · Consolidated shipping options

- · Custom bar coding for shipments
- · Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- · Online technical data and parametric search
- SPICE models
- · Custom electrical curves
- · Environmental regulation compliance
- · Customer specific screening
- · Up-screening capabilities

- Special wafer diffusions
- · PbSn plating options
- · Package details
- · Application notes
- · Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA Main Tel: (631) 435-1110 Main Fax: (631) 435-1824

Support Team Fax: (631) 435-3388

www.centralsemi.com

Worldwide Field Representatives: www.centralsemi.com/wwreps

Worldwide Distributors:

www.centralsemi.com/wwdistributors

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centralsemi.com/terms

www.centralsemi.com (001)