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DESCRIPTION:

The CENTRAL SEMICONDUCTOR 1N5188 Series are silicon rectifiers mounted in a hermetically sealed, glass passivated package, designed for general purpose applications where fast reverse recovery times are required.

MARKING: FULL PART NUMBER

ΜΔΧΙΜΙΙΜ	RATINGS	(T _A =25°C unless	s otherwise noted)
	INATINOS.		s ourier wise noted)

	SYMBOL	<u>1N5188</u>	<u>1N5189</u>	<u>1N5190</u>	UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	400	500	600	V
DC Blocking Voltage	V _R	400	500	600	V
RMS Reverse Voltage	V _{R(RMS)}	280	350	420	V
Average Forward Current	Î _O		3.0		А
Peak Forward Surge Current, tp=8.3ms	^I FSM		80		А
Operating and Storage Junction Tempe	rature T _J , T _{stg}	-	65 to +20	D	°C

ELECTRICAL	CHARACTERISTICS:	(T _A =25°C unless	otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
IR	V _R =Rated V _{RRM}		2.0	μA
I _R	V _R =Rated V _{RRM} , T _A =100°C		100	μΑ
VF	I _F =9.0A, tp=380μs	0.9	1.5	V
BVR	I _R =100μΑ (1N5188)	480		V
вv _R	I _R =100μΑ (1Ν5189)	550		V
BVR	I _R =100μΑ (1Ν5190)	660		V
t _{rr}	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A (1N5188)		250	ns
t _{rr}	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A (1N5189)		300	ns
t _{rr}	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A (1N5190)		400	ns

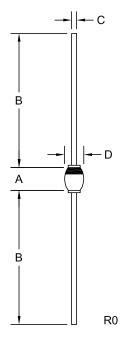
R0 (5-March 2012)





FAST RECOVERY, GLASS PASSIVATED SILICON RECTIFIER 3 AMP, 400 THRU 600 VOLTS

GPR-4AM CASE - MECHANICAL OUTLINE



DIMENSIONS				
	INCHES		MILLIMETER	
SYMBOL	MIN	MAX	MIN	MAX
А	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)

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R0 (5-March 2012)

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

CONTACT US

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