

CentralTM Semiconductor Corp.

145 Adams Avenue, Hauppauge, NY 11788 USA
Tel: (631) 435-1110 • Fax: (631) 435-1824

Manufacturers of World Class Discrete Semiconductors

CR1F-020GPP SERIES

GLASS PASSIVATED JUNCTION
FAST RECOVERY RECTIFIER
1.0 AMP, 200 THRU 1000 VOLTS

JEDEC DO-41 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR CR1F-020GPP Series types are 1.0 Amp Glass Passivated Junction Fast Recovery Silicon Rectifiers which are high quality, well constructed, highly reliable components designed for high speed switching applications. **THIS DEVICE IS MANUFACTURED WITH A GLASS PASSIVATED CHIP FOR OPTIMUM RELIABILITY.**

MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

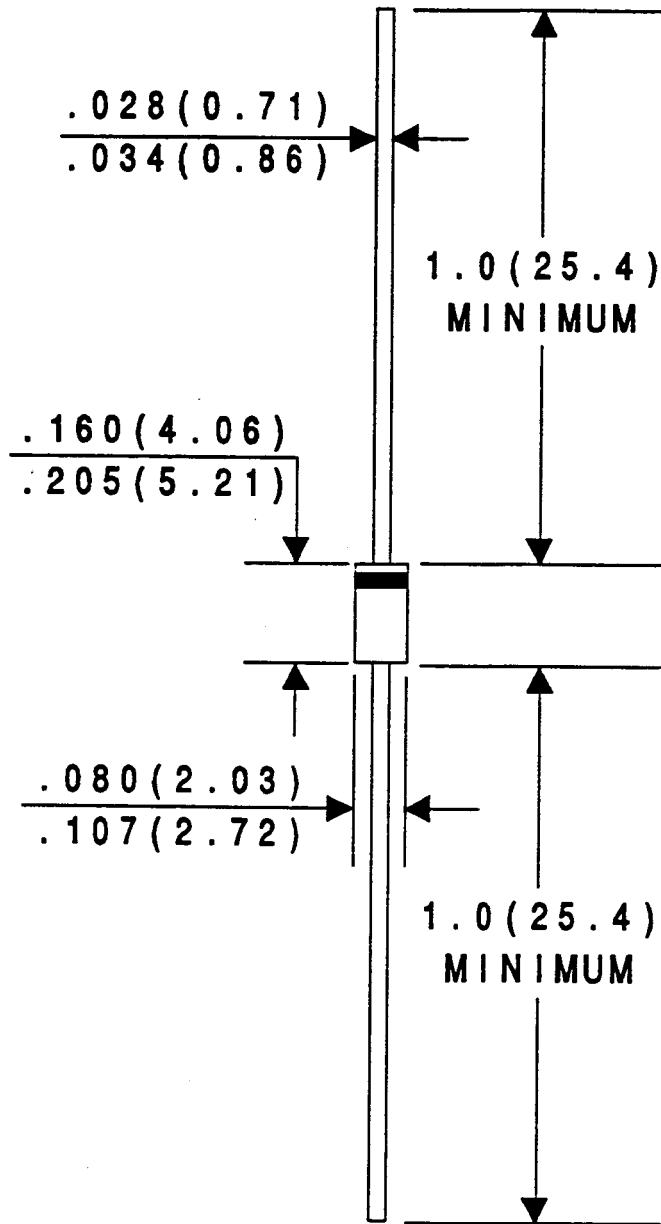
	SYMBOL	CR1F-020 GPP	CR1F-040 GPP	CR1F-060 GPP	CR1F-080 GPP	CR1F-100 GPP	UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	200	400	600	800	1000	V
DC Blocking Voltage	V _R	200	400	600	800	1000	V
RMS Reverse Voltage	V _{R(RMS)}	140	280	420	560	700	V
Average Forward Current (T _A =55°C)	I _O			1.0			A
Peak Forward Surge Current	I _{FSM}			30			A
Operating and Storage							
Junction Temperature	T _J , T _{stg}			-65 to +175			°C
Thermal Resistance	θ _{JA}			50			°C/W

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
V _F	I _F =1.0A			1.3	V
I _R	V _R =Rated V _{RRM}			5.0	μA
I _R	V _R =Rated V _{RRM} , T _A =100°C			100	μA
t _{rr}	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A (CR1F-020GPP, -040GPP)			150	ns
t _{rr}	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A (CR1F-060GPP)			250	ns
t _{rr}	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A (CR1F-080GPP, -100GPP)			500	ns
C _J	V _R =4.0V, f=1.0MHz		15		pF

(SEE REVERSE FOR MECHANICAL OUTLINE)

JEDEC DO-41 CASE - MECHANICAL OUTLINE



All Dimensions in Inches (mm).