

CentralTM Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

CR3U-010 SERIES

ULTRA FAST RECOVERY RECTIFIER
3.0 AMP, 100 THRU 1000 VOLTS

JEDEC DO-201AD CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR CR3U-010 Series types are 3.0 Amp Silicon Ultra Fast Recovery Rectifiers manufactured using the epitaxial process designed for those applications requiring extremely fast recovery times.

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

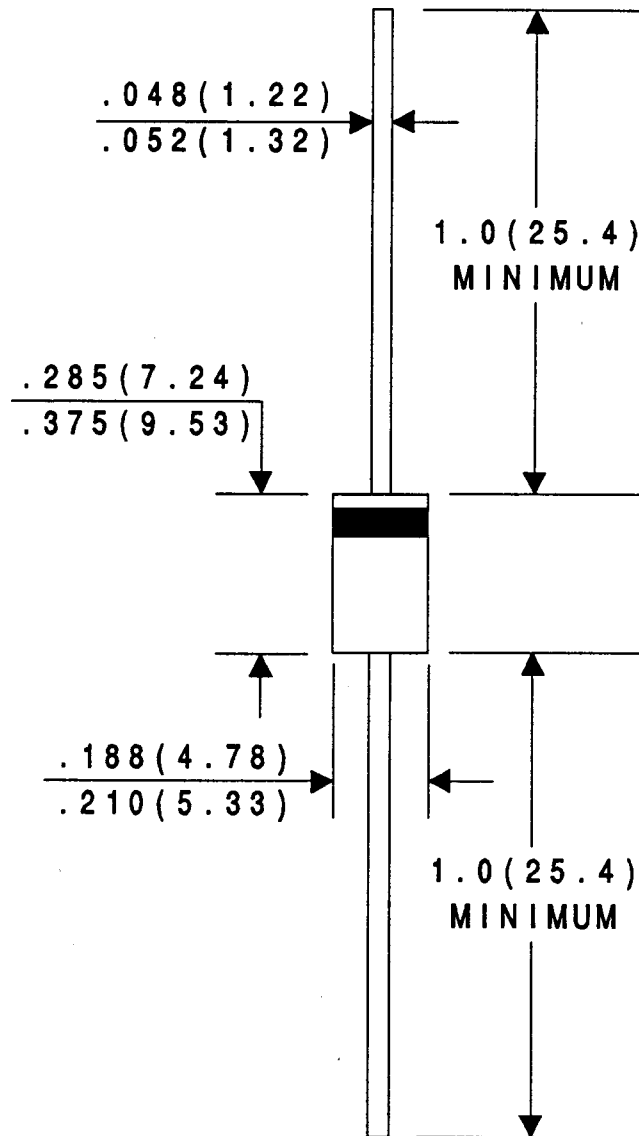
	SYMBOL	CR3U -010	CR3U -020	CR3U -040	CR3U -060	CR3U -080	CR3U -100	UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	100	200	400	600	800	1000	V
DC Blocking Voltage	V _R	100	200	400	600	800	1000	V
RMS Reverse Voltage	V _{R(RMS)}	70	140	280	420	560	700	V
Average Forward Current (T _A =55°C)	I _O				3.0			A
Peak Forward Surge Current	I _{FSM}				150			A
Operating and Storage Junction Temperature	T _J , T _{stg}			-65 to +150				°C

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I _R	V _R =Rated V _{RRM}			10	μA
I _R	V _R =Rated V _{RRM} , T _A =100°C			100	μA
V _F	I _F =3.0A (CR3U-010 & CR3U-020)			1.0	V
V _F	I _F =3.0A (CR3U-040)			1.3	V
V _F	I _F =3.0A (CR3U-060 THRU CR3U-100)			1.7	V
t _{rr}	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A (CR3U-010 THRU CR3U-040)			50	ns
t _{rr}	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A (CR3U-060 THRU CR3U-100)			75	ns

(SEE REVERSE FOR MECHANICAL OUTLINE)

JEDEC DO-201AD CASE - MECHANICAL OUTLINE



All Dimensions in Inches (mm).