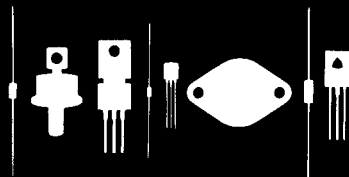


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145 Adams Avenue
Hauppauge, New York 11788



CR1U SERIES

1.0 AMP, 50 THRU 1000 VOLTS
ULTRA FAST SILICON RECTIFIER

JEDEC DO-41 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR CR1U series types are silicon ultra fast recovery rectifiers manufactured using the epitaxial process with glass passivated (hermetically sealed) chips designed for applications requiring extremely fast reverse recovery times.

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

	SYMBOL	CR1U -005	CR1U -010	CR1U -020	CR1U -040	CR1U -060	CR1U -080	CR1U -100	UNIT
Peak Repetitive Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
DC Blocking Voltage	VR	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Forward Current (TA=70°C)	IO				1.0				A
Peak Forward Surge Current	IFSM				50				A
Operating and Storage Junction Temperature	TJ, TSTG	-65 TO +150							°C

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
IR	VR=Rated VRRM			5.0	μA
IR	VR=Rated VRRM, TL=60°C			100	μA
VF	IF=Rated IO (50V thru 400V)		0.85	1.0	V
VF	IF=Rated IO (600V thru 1000V)		1.4	1.75	V
trr	IF=0.5A, IR=1.0A Recov to 0.25A			50	ns

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