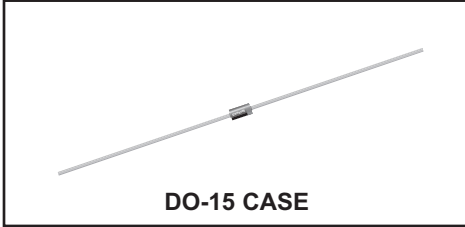


CR2-005 THRU CR2-150

SILICON RECTIFIERS
2.0 AMP, 50 THRU 1500 VOLT



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CR2-005 series 2.0 Amp silicon rectifier is a highly reliable component designed for use in all types of military, commercial, industrial, entertainment, computer, and automotive applications. Because of its superior electrical characteristics, this rectifier family is used as a universal replacement for many other rectifiers.

MARKING: FULL PART NUMBER

FEATURES:

- 2.0 Amp average forward current @ 50°C
- 50 Amp surge current

MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$ unless otherwise noted)

		CR2									
	SYMBOL	-005	-010	-020	-040	-060	-080	-100	-120	-150	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	1200	1500	V
DC Blocking Voltage	V_R	50	100	200	400	600	800	1000	1200	1500	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	840	1050	V
Average Forward Current ($T_A=50^\circ\text{C}$)	I_O					2.0					A
Peak Forward Surge Current ($t_p=8.3\text{ms}$)	I_{FSM}					50					A
Operating and Storage Junction Temperature	T_J, T_{stg}					-65 to +175					$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$ unless otherwise noted)

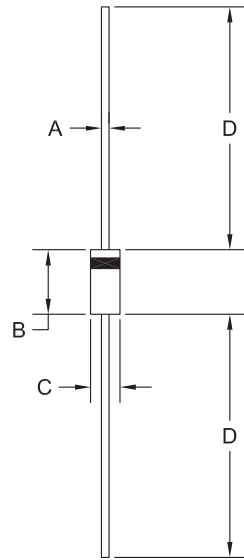
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_R	$V_R=\text{Rated } V_{RRM}$		5.0	μA
V_F	$I_F=2.0\text{A}$		1.2	V

R1 (7-February 2014)

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DO-15 CASE - MECHANICAL OUTLINE



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.028	0.034	0.71	0.86
B	0.230	0.300	5.84	7.62
C	0.104	0.140	2.64	3.56
D	1.000	-	25.40	-

DO-15 (REV: R1)

MARKING: FULL PART NUMBER

R1

R1 (7-February 2014)