

# Central<sup>TM</sup> Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

## CLLR1F SERIES

**SURFACE MOUNT  
FAST RECOVERY RECTIFIER  
1.0 AMP, 200 THRU 1,000 VOLTS**

**MELF CASE**

### FEATURES

- LOW COST
- HIGH RELIABILITY
- GLASS PASSIVATED INTERNAL CONSTRUCTION
- SPECIAL SELECTIONS AVAILABLE
- SUPERIOR LOT TO LOT CONSISTENCY
- SWITCHING SPEED AS LOW AS 150ns

### DESCRIPTION:

The CENTRAL SEMICONDUCTOR 1.0 amp leadless epoxy fast recovery silicon rectifier is a high quality, well constructed, highly reliable component designed for use in all types of commercial, industrial, entertainment, computer, and automotive applications. Higher voltage devices, special selections, general purpose, and ultra fast recovery and Schottky devices are available upon request. To order devices on tape and reel (1,500/7" reel) add TR suffix to part number.

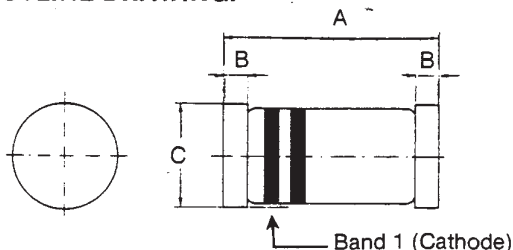
### MAXIMUM RATINGS: (T<sub>A</sub> = 25° C unless otherwise noted)

	SYMBOL	CLLR1F-02	CLLR1F-06	CLLR1F-10	UNIT
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	200	600	1000	V
DC Blocking Voltage	V <sub>R</sub>	200	600	1000	V
RMS Reverse Voltage	V <sub>R</sub> (RMS)	140	420	700	V
Average Forward Current (T <sub>L</sub> = 80° C)	I <sub>O</sub>		1.0		A
Peak Forward Surge Current (8.3ms)	I <sub>FSM</sub>		30		A
Operating and Storage Junction Temperature	T <sub>J</sub> , T <sub>STG</sub>	-65 to + 175			°C

### ELECTRICAL CHARACTERISTICS: (T<sub>A</sub> = 25° C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
V <sub>F</sub>	I <sub>F</sub> = Rated I <sub>O</sub>		1.3	V
I <sub>R</sub>	V <sub>R</sub> = Rated V <sub>RRM</sub>		5.0	μA
I <sub>R</sub>	V <sub>R</sub> = Rated V <sub>RRM</sub> , T <sub>A</sub> = 125° C		100	μA
t <sub>rr</sub>	I <sub>F</sub> = 0.5A, I <sub>R</sub> = 1.0A, Recover to 0.25A (CLLR1F-02)		150	ns
t <sub>rr</sub>	I <sub>F</sub> = 0.5A, I <sub>R</sub> = 1.0A, Recover to 0.25A (CLLR1F-06)		250	ns
t <sub>rr</sub>	I <sub>F</sub> = 0.5A, I <sub>R</sub> = 1.0A, Recover to 0.25A (CLLR1F-10)		500	ns

### OUTLINE DRAWING:



DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	.185	.205	4.70	5.21
B	.014	.022	.355	.560
C	.095	.105	2.41	2.68

### COLOR CODES:

CENTRAL TYPE NO.	BAND 1*	BAND 2
CLLR1F - 02	RED	ORANGE
CLLR1F - 06	RED	GREEN
CLLR1F - 10	RED	VIOLET

\* CATHODE BAND