

CentralTM Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

CLLR1U SERIES

**SURFACE MOUNT
ULTRA FAST RECTIFIER
1.0 AMP, 100 THRU 400 VOLTS**

MELF CASE

FEATURES

- LOW COST
- HIGH RELIABILITY
- GLASS PASSIVATED INTERNAL CONSTRUCTION
- SPECIAL SELECTIONS AVAILABLE
- SUPERIOR LOT TO LOT CONSISTENCY
- SWITCHING SPEED: 50 ns MAX

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 1.0 amp leadless epoxy ultra 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, 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.

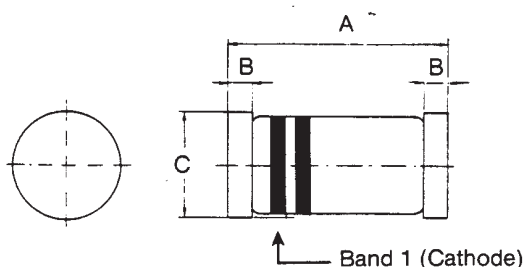
MAXIMUM RATINGS: ($T_A = 25^\circ\text{C}$ unless otherwise noted)

	SYMBOL	CLLR1U-01	CLLR1U-02	CLLR1U-04	UNIT
Peak Repetitive Reverse Voltage	V_{RRM}	100	200	400	V
DC Blocking Voltage	V_R	100	200	400	V
RMS Reverse Voltage	V_R (RMS)	70	140	280	V
Average Forward Current ($T_L = 80^\circ\text{C}$)	I_O		1.0		A
Peak Forward Surge Current (8.3ms)	I_{FSM}		30		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	UNIT
V_F	$I_F = \text{Rated } I_O$ (CLLR1U-01, CLLR1U-02)		1.0	V
V_F	$I_F = \text{Rated } I_O$ (CLLR1U-04)		1.25	V
I_R	$V_R = \text{Rated } V_{RRM}$		5.0	μA
I_R	$V_R = \text{Rated } V_{RRM}, T_A = 125^\circ\text{C}$		100	μA
t_{rr}	$I_F = 0.5\text{A}, I_R = 1.0\text{A}, \text{Recover to } 0.25\text{A}$ (All Types)		50	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
CLLR1U - 01	GREEN	RED
CLLR1U - 02	GREEN	ORANGE
CLLR1U - 04	GREEN	YELLOW

* CATHODE BAND