

CMR3S-01 CMR3S-04
 CMR3S-02 CMR3S-06

**SURFACE MOUNT SILICON
 SUPER FAST
 RECOVERY RECTIFIERS
 3.0 AMP, 100 THRU 600 VOLT**



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMR3S-01 series 3.0 Amp surface mount silicon Super Fast Recovery rectifiers are highly reliable components designed for use in all types of commercial, industrial, entertainment, computer, and automotive applications. To order devices on 16mm Tape and Reel (3000/13" Reel), add TR13 suffix to part number.

MARKING CODE: SEE MARKING CODE TABLE ON FOLLOWING PAGE



SMC CASE

FEATURES:

- Super fast recovery (35ns MAX)
- High reliability
- Glass passivated chip
- Special selections available
- "C" bend construction provides strain relief when mounted on PC board

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

	SYMBOL	CMR3S-01	CMR3S-02	CMR3S-04	CMR3S-06	UNITS
Peak Repetitive Reverse Voltage	V _R RM	100	200	400	600	V
DC Blocking Voltage	V _R	100	200	400	600	V
RMS Reverse Voltage	V _R (RMS)	70	140	280	420	V
Average Forward Current (T _L =75°C)	I _O		3.0			A
Peak Forward Surge Current, tp=8.3ms	I _{FSM}		100			A
Operating and Storage Junction Temperature	T _J , T _{stg}		-65 to +150			°C
Thermal Resistance	θ _{JL}		16			°C/W

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

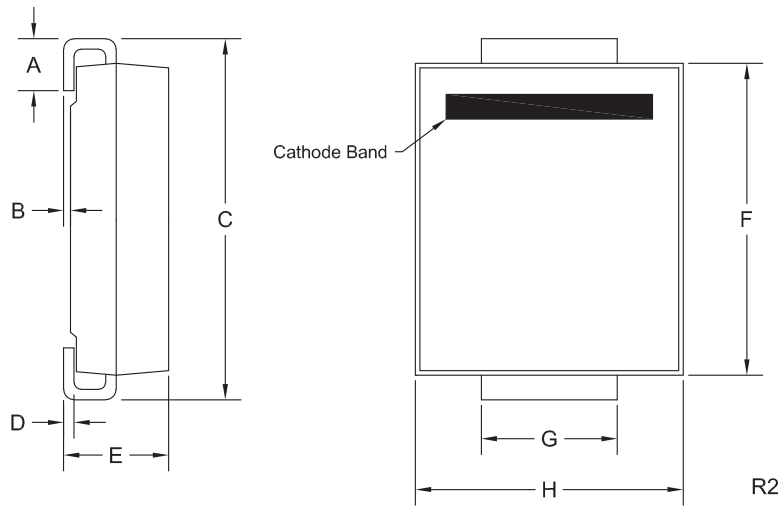
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I _R	V _R =Rated V _R RM		1.0	μA
I _R	V _R =Rated V _R RM, T _A =100°C		200	μA
V _F	I _F =3.0A (CMR3S-01, CMR3S-02)		0.95	V
V _F	I _F =3.0A (CMR3S-04)		1.25	V
V _F	I _F =3.0A (CMR3S-06)		1.70	V
t _{rr}	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A		35	ns
C _J	V _R =4.0V, f=1.0MHz	45		pF

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SMC CASE - MECHANICAL OUTLINE



DEVICE	MARKING CODE
CMR3S-01	CS301
CMR3S-02	CS302
CMR3S-04	CS304
CMR3S-06	CS306

SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.030	0.060	0.76	1.52
B	0.002	0.008	0.05	0.20
C	0.305	0.320	7.75	8.13
D	0.006	0.012	0.15	0.31
E	0.079	0.103	2.00	2.62
F	0.260	0.280	6.60	7.11
G	0.108	0.128	2.75	3.25
H	0.220	0.245	5.59	6.22

SMC (REV: R2)

R3 (11-September 2013)