

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

**SURFACE MOUNT
 SUPER FAST RECOVERY
 SILICON RECTIFIER
 3 AMP, 100 THRU 600 VOLTS**



SMC CASE

• Device is **Halogen Free** by Design



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMR3S-01 Series 3.0 Amp Surface Mount Silicon Super Fast Recovery Rectifier is a high quality, well constructed, highly reliable component 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

FEATURES:

- Super fast recovery (35ns MAX)
- High reliability
- Glass passivated chip
- Special selections available
- Superior lot to lot consistency
- "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 _{RRM}	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 _{RRM}		1.0	µA
I _R	V _R =Rated V _{RRM} , 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

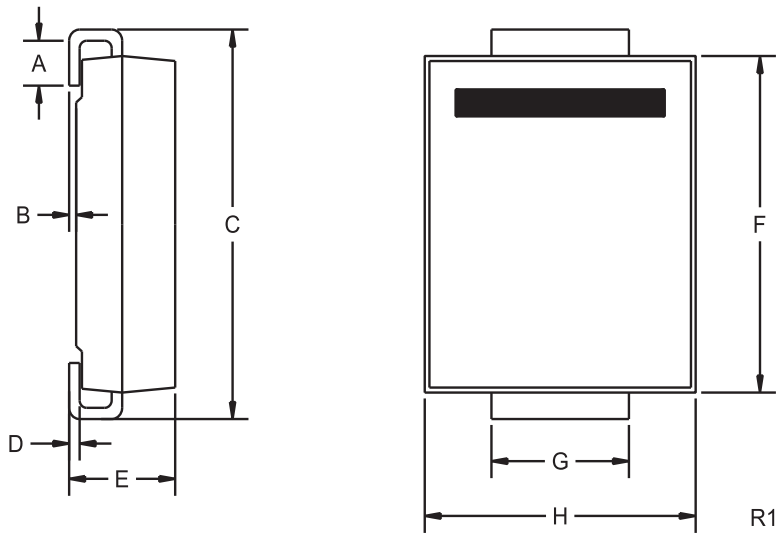
R2 (3-February 2010)

CMR3S-01 CMR3S-04
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SMC CASE - MECHANICAL OUTLINE



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

SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.030	0.060	0.76	1.52
B	0.004	0.008	0.10	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	0.124	2.75	3.15
H	0.220	0.245	5.59	6.22

SMC (REV: R1)

R2 (3-February 2010)