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

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

SMC CASE

• Device is ***Halogen Free*** by Design

Central™
Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 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 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 (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=500mA , I_R=1.0A, I_{rr}=250mA		35	ns
C_j	V_R=4.0V, f=1.0MHz	45		pF

R1 (15-September 2009)

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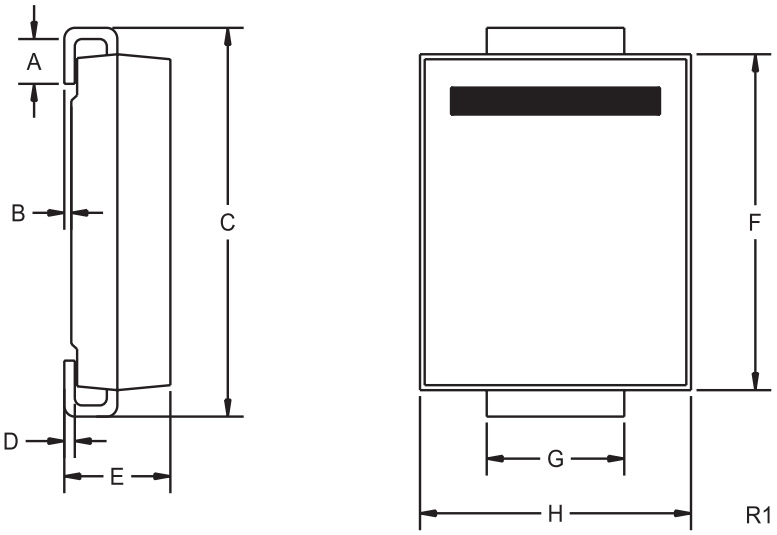
SMC CASE - MECHANICAL OUTLINE



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

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	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)

R1 (15-September 2009)