

CSMF03V3C CSMF15C
 CSMF05C CSMF24C
 CSMF12C

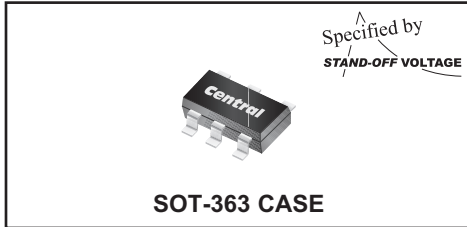
**SURFACE MOUNT SILICON
 5-LINE TVS/ZENER ARRAY
 3.3 VOLT THRU 24 VOLT**



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CSMF03V3C Series is a 5 Line TVS/Zener Array packaged in an SOT-363 surface mount case. These devices are designed to protect sensitive electronic equipment, such as computers, networking communication, cell phones and instrumentation from over-voltage transients and ESD damage. Available in voltages ranging from 3.3V to 24V.



MARKING CODES:

CSMF03V3C: CF03 CSMF15C: CF15
CSMF05C: CF05 CSMF24C: CF24
CSMF12C: CF12

FEATURES:

- Very low clamping voltage
- Low leakage current
- 100W power dissipation
- SMD SOT-363 package
- IEC61000-4-2 ESD 20kV Air, 15kV Contact Compliance

APPLICATIONS:

- Hand held portable equipment
- Networks, servers and telecom
- Desktop and notebook computers
- Instrumentation

MAXIMUM RATINGS: (T _A =25°C unless otherwise noted)	SYMBOL		UNITS
Peak Pulse Power (8x20µs)	P _{pp}	100	W
ESD Voltage (HBM)	V _{ESD}	25	kV
Operating and Storage Junction Temperature	T _J , T _{stg}	-55 to +150	°C

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

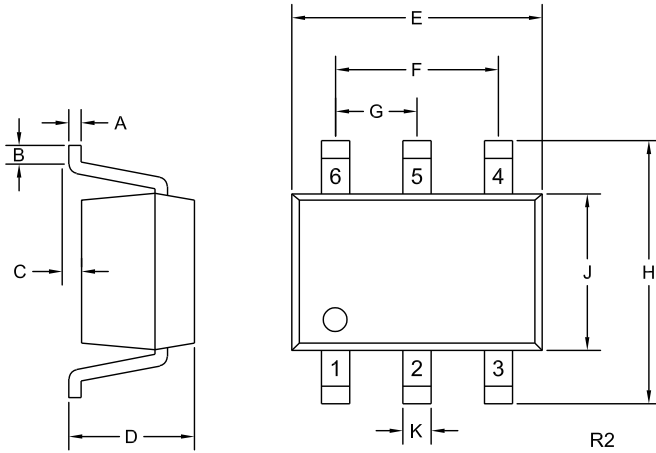
TYPE	Maximum Reverse Stand-Off Voltage	Minimum Reverse Breakdown Voltage		Maximum Reverse Leakage Current		Maximum Clamping Voltage 8x20µs		Maximum Clamping Voltage 8x20µs		Maximum Off State Junction Capacitance (V _R =0, f=1.0MHz)
	V _{RWM}	V _{BR} @	I _{BR}	I _R @	V _R	V _{cl} @	I _{pp}	V _{cl} @	I _{pp}	C _J
	V	V	mA	µA	V	V	A	V	A	pF
CSMF03V3C	3.3	4.7	10	250	3.3	7.5	5.0	9.0	9.0	160
CSMF05C	5.0	6.2	1.0	0.5	5.0	10	5.0	11	9.0	100
CSMF12C	12	13.3	1.0	0.5	12	18	3.0	20	5.0	50
CSMF15C	15	16.6	1.0	0.5	15	23	3.0	25	4.0	40
CSMF24C	24	26.7	1.0	0.5	24	35	1.0	45	2.0	30

CSMF03V3C CSMF15C
 CSMF05C CSMF24C
 CSMF12C



**SURFACE MOUNT SILICON
 5-LINE TVS/ZENER ARRAY
 3.3 VOLT THRU 24 VOLT**

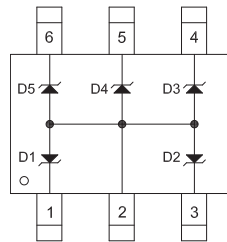
SOT-363 - CASE - MECHANICAL OUTLINE



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.004	0.010	0.10	0.25
B	0.005	-	0.12	-
C	0.000	0.004	0.00	0.10
D	0.031	0.043	0.80	1.10
E	0.071	0.087	1.80	2.20
F	0.051		1.30	
G	0.026		0.65	
H	0.075	0.091	1.90	2.30
J	0.043	0.055	1.10	1.40
K	0.006	0.012	0.15	0.30

SOT-363 (REV: R2)

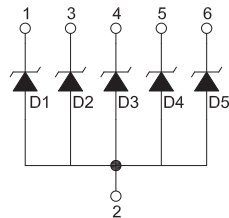
PIN CONFIGURATION



LEAD CODE:

- 1) Cathode D1
- 2) Anode D1, D2, D3, D4, D5
- 3) Cathode D2
- 4) Cathode D3
- 5) Cathode D4
- 6) Cathode D5

SCHEMATIC



MARKING CODES:

- CSMF03V3C: CF03
- CSMF05C: CF05
- CSMF12C: CF12
- CSMF15C: CF15
- CSMF24C: CF24

R3 (19-March 2013)