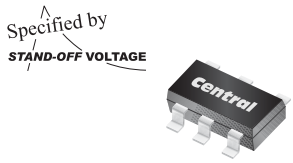
CSMS05 CSMS12
CSMS15 CSMS24

SURFACE MOUNT
QUAD SILICON TVS/ZENER ARRAY
5 THRU 24 VOLTS



SOT-26 CASE

Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CSMS05 Series is a 4 Line TVS/Zener Array packaged in the SOT-26 surface mount case. These devices are designed to protect sensitive equipment against ESD and prevent latch-up events in CMOS circuitry operating at 5V, 12V, 15V, and 24V.

MARKING CODE:

CSMS05: CS05
CSMS12: CS12
CSMS15: CS15
CSMS24: CS24

APPLICATIONS:

- PDAs
- Cell Phones
- Memory Card Ports
- Instrumentation

FEATURES:

- Very Low Clamping Voltage
- Low Leakage Current
- 350W Power Dissipation
- SMD SOT-26 Package
- IEC61000-4-2 ESD 20kV Air, 15kV Contact Compliance

MAXIMUM RATINGS: (T_A=25°C unless otherwise noted)	**SYMBOL**		**UNITS**
Peak Pulse Power	P_{PP}	350	W
ESD Voltage (HBM)	V_{ESD}	>25	kV
Operating Junction Temperature	T_J	-50 to +125	°C
Storage Temperature	T_{stg}	-50 to +150	°C

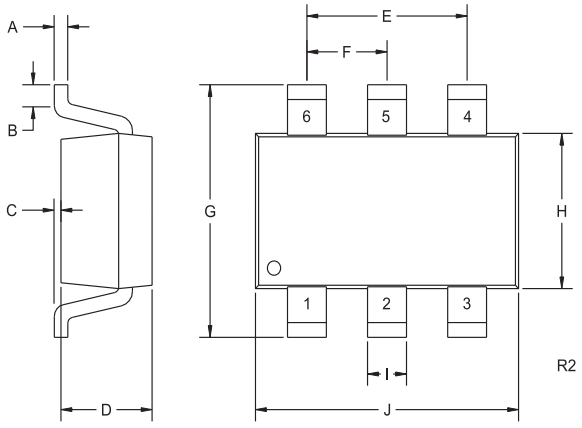
ELECTRICAL CHARACTERISTICS PER DIODE: (T_A=25°C unless otherwise noted)

TYPE	Maximum Reverse Stand-Off Voltage V_{RWM}	Minimum Reverse Breakdown Voltage V_{BR} @ I_{BR}		Maximum Reverse Leakage Current I_R @ V_R		Maximum Clamping Voltage 8x20µs V_{cl} @ I_{PP}		Maximum Clamping Voltage 8x20µs V_{cl} @ I_{PP}		Maximum Off State Junction Capacitance (V_R=0, f=1.0MHz) C_J
	V	V	mA	µA	V	V	A	V	A	pF
CSMS05	5.0	6.0	1.0	5.0	5.0	9.8	5.0	13	24	225
CSMS12	12	13.3	1.0	1.0	12	20	5.0	23	15	100
CSMS15	15	16.7	1.0	1.0	15	24	5.0	29	12	80
CSMS24	24	26.7	1.0	1.0	24	40	5.0	44	8.0	60

CSMS05 CSMS12
CSMS15 CSMS24

SURFACE MOUNT
QUAD SILICON TVS/ZENER ARRAY
5 THRU 24 VOLTS

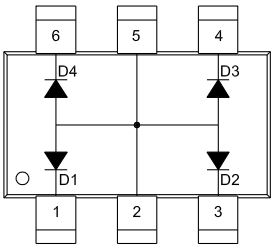
SOT-26 CASE - MECHANICAL OUTLINE



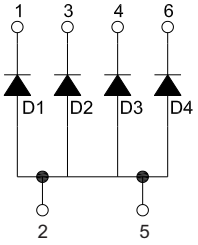
DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.004	0.007	0.11	0.19
B	0.016	-	0.40	-
C	-	0.004	-	0.10
D	0.039	0.047	1.00	1.20
E	0.074	0.075	1.88	1.92
F	0.037	0.038	0.93	0.97
G	0.102	0.118	2.60	3.00
H	0.059	0.067	1.50	1.70
I	0.016		0.41	
J	0.110	0.118	2.80	3.00

SOT-26 (REV: R2)

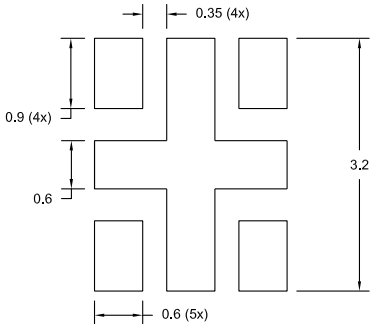
PIN CONFIGURATION



SCHEMATIC



SUGGESTED MOUNTING PADS
For Maximum Power Dissipation
(Dimensions in mm)



For Standard mounting, refer to SOT-26 Package Details.

LEAD CODE:
1) Cathode D1
2) Anode D1, D2, D3, D4
3) Cathode D2
4) Cathode D3
5) Anode D1, D2, D3, D4
6) Cathode D4

R2 (17-September 2010)