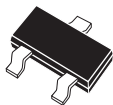


CSL05
CSL05D

**SURFACE MOUNT
ULTRA LOW CAPACITANCE
TRANSIENT VOLTAGE SUPPRESSOR**



SOT-23 CASE

CentralTM
Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CSL05 (Single) and CSL05D (Dual) types are ultra low capacitance transient voltage suppressors packaged in the SOT-23 surface mount package. These devices provide excellent protection from spurious voltage transients. The very low capacitance reduces insertion loss to minimizes the affect on the data line through-put. Typical applications include: mobile phones, digital cameras, USB ports, MP3 players, and Ethernet port protection.

MARKING CODE:

CSL05 (Single): CL05

CSL05D (Dual): CL5D

MAXIMUM RATINGS: ($T_A=25^{\circ}\text{C}$)

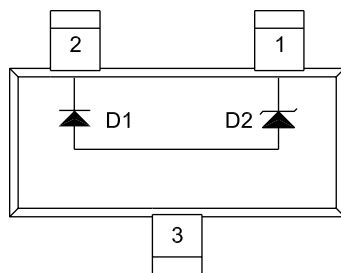
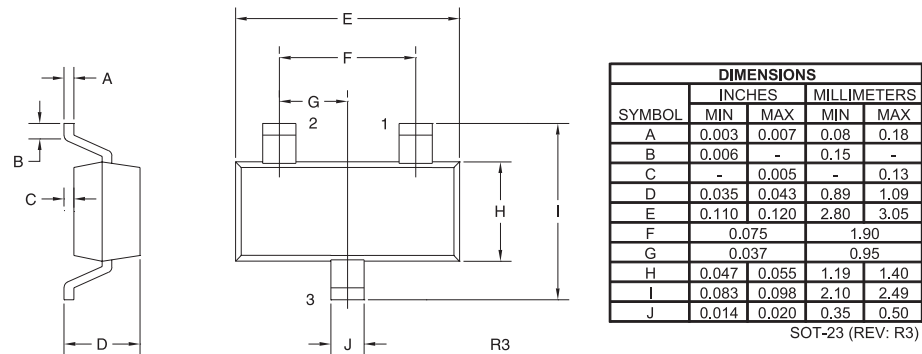
	SYMBOL		UNITS
Peak Pulse Power (8 x 20 μs Waveform)	P_{PK}	400	W
Peak Pulse Current (8 x 20 μs Waveform)	I_{PP}	17	A
ESD Voltage (HBM)	V_{ESD}	>25	kV
Operating Temperature	T_J	-50 to +125	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-50 to +150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS: ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_R	$V_{RWM}=5.0\text{V}$		5.0	μA
BV_R	$I_t=1.0\text{mA}$	6.0		V
V_C	$I_{PP}=1.0\text{A}$, $t_p=8 / 20\mu\text{s}$		9.5	V
V_C	$I_{PP}=5.0\text{A}$, $t_p=8 / 20\mu\text{s}$		12	V
C_j	$V_R=0\text{V}$, $f=1.0\text{MHz}$		1.2	pF

**SURFACE MOUNT
ULTRA LOW CAPACITANCE
TRANSIENT VOLTAGE SUPPRESSOR**

SOT-23 CASE - MECHANICAL OUTLINE

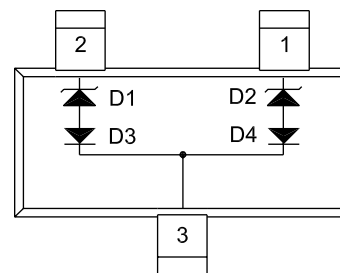


CSL05

Lead Code:

- 1) CATHODE D2
- 2) CATHODE D1
- 3) NO CONNECTION

MARKING CODE: CL05



CSL05D

Lead Code:

- 1) CATHODE D2
- 2) CATHODE D1
- 3) CATHODE D3, CATHODE D4

MARKING CODE: CL5D