

CSL05
CSL05D

SURFACE MOUNT
ULTRA LOW CAPACITANCE SILICON
TRANSIENT VOLTAGE SUPPRESSORS



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SOT-23 CASE

MARKING CODES: CSL05 (Single):CL05
CSL05D (Dual): CL5D

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

Peak Pulse Power, $tp=8\times20\mu\text{s}$	P_{PK}	400	W
Peak Pulse Current, $tp=8\times20\mu\text{s}$	I_{PP}	17	A
ESD Voltage (HBM)	V_{ESD}	>25	kV
Operating Junction Temperature	T_J	-50 to +125	$^\circ\text{C}$
Storage Temperature	T_{stg}	-50 to +150	$^\circ\text{C}$

SYMBOL

UNITS

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

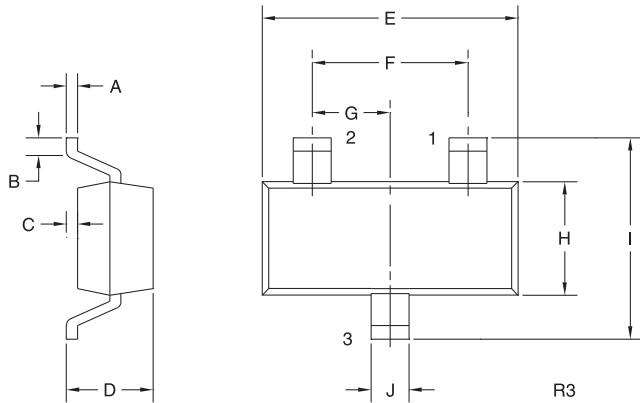
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_R	$V_{RWM}=5.0\text{V}$		5.0	μA
BV_R	$I_t=1.0\text{mA}$	6.0		V
V_C	$I_{PP}=1.0\text{A}$, $tp=8\times20\mu\text{s}$		9.5	V
V_C	$I_{PP}=5.0\text{A}$, $tp=8\times20\mu\text{s}$		12	V
C_J	$V_R=0$, $f=1.0\text{MHz}$		1.2	pF

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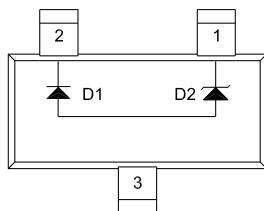
SOT-23 CASE - MECHANICAL OUTLINE



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.003	0.007	0.08	0.18
B	0.006	-	0.15	-
C	-	0.005	-	0.13
D	0.035	0.043	0.89	1.09
E	0.110	0.120	2.80	3.05
F	0.075	-	1.90	-
G	0.037	-	0.95	-
H	0.047	0.055	1.19	1.40
I	0.083	0.098	2.10	2.49
J	0.014	0.020	0.35	0.50

SOT-23 (REV: R3)

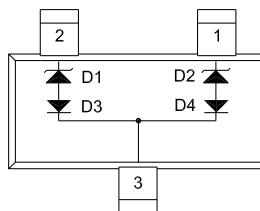
PIN CONFIGURATIONS



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, D4

MARKING CODE: CL5D

R1 (17-February 2010)