

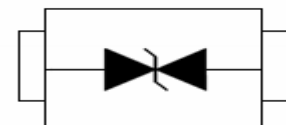


FEATURES

- ◇ Small body outline dimensions
0.063 x 0.032 (1.6x0.8 mm)
- ◇ Protects one bi-directional I/O line
- ◇ Low clamping voltage
- ◇ Working voltages : 5V
- ◇ Low leakage current
- ◇ RoHS compliant



SOD-523



PIN Configuration

MAIN APPLICATIONS

- ◇ Cell phone handsets and accessories
- ◇ Microprocessor based equipment
- ◇ Personal digital assistants (PDA's)
- ◇ Notebooks, desktops, and servers
- ◇ Portable instrumentation
- ◇ Peripherals
- ◇ Digital cameras

PROTECTION SOLUTION TO MEET

- ◇ IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact)
- ◇ IEC61000-4-4 (EFT) 40A (5/50ns)
- ◇ IEC61000-4-5 (Lightning) 1A (8/20µs)

MECHANICAL CHARACTERISTICS

- ◇ SOD-523 package
- ◇ Molding compound flammability rating : UL 94V-0
- ◇ Quantity per reel : 8,000pcs
- ◇ Lead finish : lead free
- ◇ Marking code : 5S

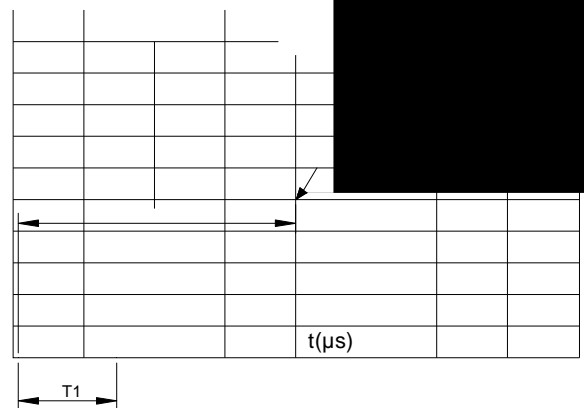
ABSOLUTE MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$, $\text{RH}=45\%-75\%$, unless otherwise noted)

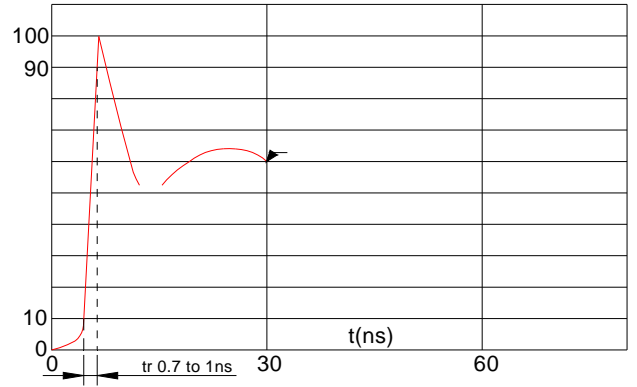
Parameter	Symbol	Value
Peak pulse power dissipation at 8/20 μs waveform	P_{PP}	20
ESD per IEC 61000-4-2 (Air)	V_{ESD}	+/- 15
ESD per IEC 61000-4-2 (Contact)		+/- 8
Lead soldering temperature	T_L	260 (10 s)
Operating junction temperature range	T_J	-55 to +
Storage temperature range	T_{STG}	-55 to +

ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$)

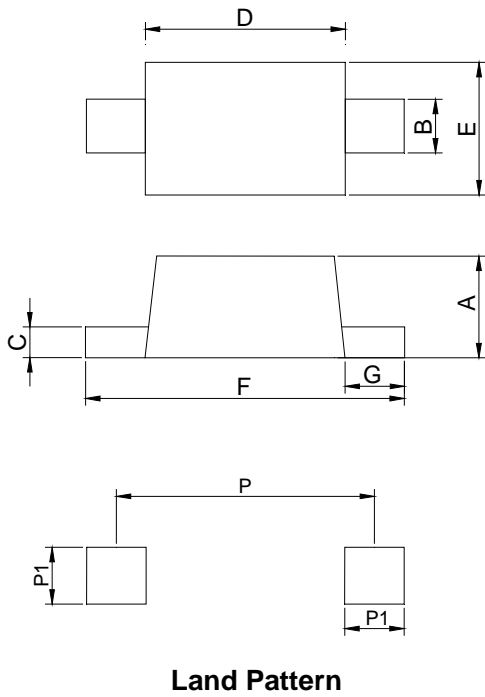
Parameter	Symbol	Conditions	Min	Max
Reverse working voltage	V_{RWM}			
Reverse breakdown voltage	V_{BR}	$I_T=1\text{mA}$	6.0	
Reverse leakage current	I_R	$V_{RWM}=5\text{V}$		
Clamping voltage	V_C	$I_{PP}=1\text{A}$, $t_P=8/20\mu\text{s}$		
Junction capacitance	C_J	$V_{RWM}=0\text{V}$, $f=1\text{MHz}$		

RATINGS AND V I CHARACTERISTICS CURVES ($T_A=25^{\circ}\text{C}$, unless otherwise noted)






PACKAGE MECHANICAL DATA



Symbol	Millimeters			Inches		
	Min	Typ	Max	Min	Typ	Max
A	0.50	0.61	0.77	0.020	0.024	0.030
B	0.25	0.30	0.40	0.010	0.012	0.016
C	0.07	0.13	0.20	0.003	0.005	0.008
D	1.10	1.20	1.30	0.043	0.047	0.051
E	0.70	0.80	0.90	0.028	0.031	0.035
F	1.50	1.60	1.70	0.059	0.063	0.067
G	0.15	0.20	0.25	0.006	0.008	0.010
P1	0.60			0.024		
P	1.42			0.056		

TAPE AND REEL SPECIFICATION SOD 523

MARKING CODE

Part Number	Marking Code
JEB05UCD5	

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