



Product data sheet

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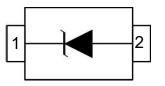


PACKAGE OUTLINE



SOD-523

PIN CONFIGURATION



FEATURES

- ♦ IEC61000-4-2 Level 4 ESD Protection
- \diamond Protects one directional I/O line
- ♦ Low clamping voltage
- ♦ Working voltages : 36V
- Low leakage current

MACHANICAL DATA

- ♦ SOD-523 package
- ♦ Flammability Rating: UL 94V-0
- ♦ Packaging: Tape and Reel
- ♦ High temperature soldering guaranted:260 °C/10s
- ♦ Reel size: 7 inch

APPLICATIONS

- Microprocessor based equipment
- Personal Digital Assistants (PDA's)
- Notebooks, Desktops, and Servers
- ♦ Portable Instrumentation
- Peripherals
- ♦ LED backlight

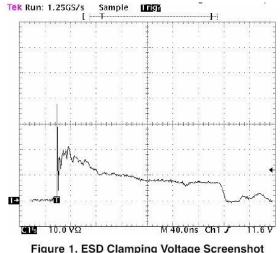
ABSOLUTE MAXIMUM RATING				
Symbol	Parameter	Value	Unit	
V _{ESD}	ESD per IEC 61000-4-2 (Air)	±25	kV	
	ESD per IEC 61000-4-2 (Contact)	±20		
PD	Total Power Dissipation on FR-5 Board (Note 1) @ Ta= 25° C	150	mW	
Т _{ОРТ}	Operating Temperature	-55~125	°C	
T _{STG}	Storage Temperature	-55~150	°C	

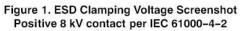
These ratings are limiting values above which the serviceability of the diode may be impaired. Note 1: FR-5=1.0x0.75x0.62 in.

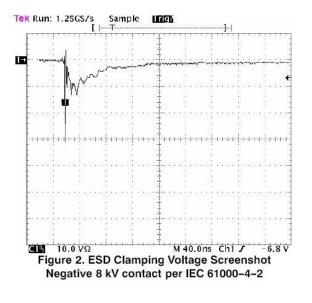


ELECTRICAL CHARACTERISTICS (Tamb=25°C)						
Symbol	Parameter	Test Condition	Min	Тур	Мах	Units
V _{RWM}	Reverse Working Voltage				36	V
V _{BR}	Reverse Breakdown Voltage	I _T = 1mA	40			V
I _R	Reverse Leakage Current	V _{RWM} = 36V			5	μA
Vc	Clamping Voltage	I _{PP} = 1A, t _p = 8/20μs			55	V
CJ	Junction Capacitance	V _R = 0V, f = 1MHz			28	pF

ELECTRICAL CHARACTERISTICS CURVE



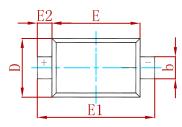


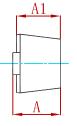


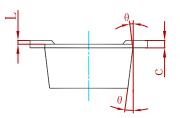




PACKAGE MECHANICAL DATA

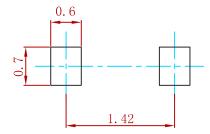






Symbol	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min	Max	Min	Max	
A	0.510	0.770	0.020	0.031	
A1	0.500	0.700	0.020	0.028	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	0.750	0.850	0.030	0.033	
E	1.100	1.300	0.043	0.051	
E1	1.500	1.700	0.059	0.067	
E2	0.200 REF		0.008 REF		
L	0.010	0.070	0.001	0.003	
θ	7° REF		7° F	REF	

Suggested Pad Layout



Note: 1.Controlling dimension:in millimeters. 2.General tolerance:±0.05mm.

3. The pad layout is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
ESD5Z36V-MS	SOD-523	3000





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