MSKSEMI 美森科













ESD

1/5

TSS

MOV

GDT

PIFD

LESD3Z5.0C-MS

Product specification





FEATURES

IEC61000-4-2 (ESD) ±8kV (Contact),
 ±15kV (Air)

IEC61000-4-4 (EFT) 40A (5/50ηs)
 Peak power dissipation: 60W (8/20μs)

Protects one I/O line
Low clamping voltage
Working voltages: 5V
Low leakage current

MACHANICAL DATA

SOD-323 package

• Terminals: Tin plated, solderable per

MIL-STD-750, method 2026Packaging: Tape and Reel

Reel size: 7 inch

APPLICATIONS

- High Speed Line :USB1.0/2.0, VGA, DVI, SDI
- Serial and Parallel Ports
- Notebooks, Desktops, Servers
- Projection TV
- Cellular handsets and accessories
- Portable instrumentation
- Peripherals

Reference News

| PACKAGE OUTLINE | PIN CONFIGURATION | Marking |
|-----------------|-------------------|---------|
| | 1 2 | 3M* |
| SOD-323 | | |



ABSOLUTE MAXIMUM RATING

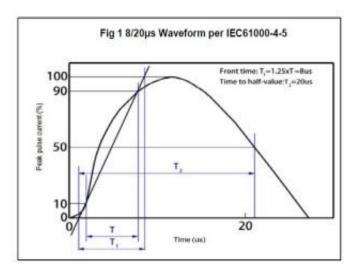
| Symbol | Parameter | Value | Units |
|------------------|---------------------------------|---------|-------|
| ., | ESD per IEC 61000-4-2 (Contact) | ±30 | 147 |
| V _{ESD} | ESD per IEC 61000-4-2 (Air) | ±30 | kV |
| P _{PP} | Peak Pulse Power (8/20μs) | 60 | W |
| Т _{ОРТ} | Operating Temperature | -55~150 | OC |
| T _{STG} | Storage Temperature | -55~150 | oc |

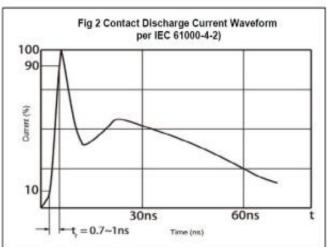
ELECTRICAL CHARACTERISTICS (Tamb=25℃)

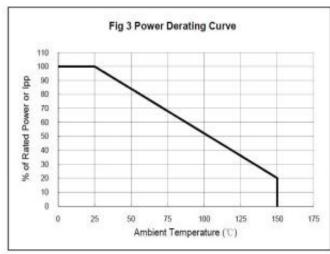
| Symbol | Parameter | Test Condition | Min | Тур | Max | Units |
|------------------|------------------------------|---------------------------------|-----|-----|------|-------|
| V _{RWM} | Reverse Working Voltage | | | | 5.0 | V |
| V_{BR} | Reverse Breakdown Voltage | I _T = 1mA | 5.6 | | 7.8 | V |
| I _R | Reverse Leakage Current | V _{RWM} = 5V | | | 1.0 | μA |
| Vc | Voltage | $I_{PP} = 5A, t_p = 8/20 \mu s$ | | | 12.0 | V |
| CJ | Junction Capacitance | V _R = 0V, f = 1MHz | | | 18 | pF |

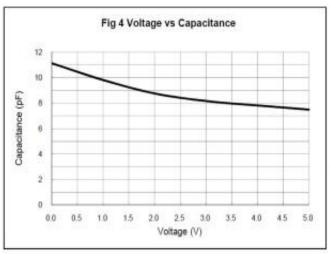


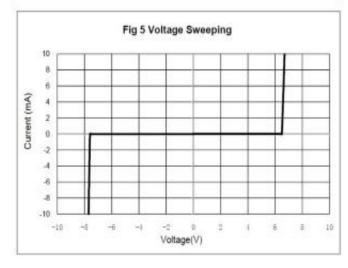
ELECTRICAL CHARACTERISTICS CURVE

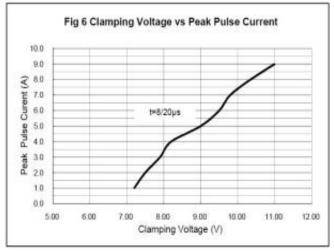






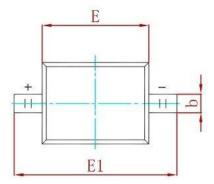


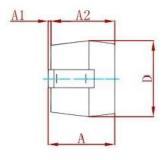


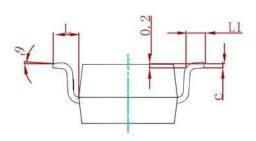




PACKAGE MECHANICAL DATA

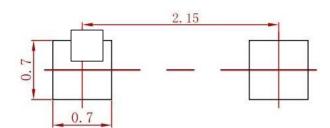






| Symbol | Dimensions 11 | n Millimeters | Dimensions | in inches |
|--------|---------------|---------------|------------|-----------|
| Бушьот | Min | Max | Min. | Max |
| A | | 1.000 | | 0. 039 |
| A1 | 0.000 | 0.100 | 0.000 | 0.004 |
| A2 | 0.800 | 0.900 | 0. 031 | 0. 035 |
| b | 0. 250 | 0.350 | 0.010 | 0. 014 |
| С | 0.080 | 0.150 | 0.003 | 0.006 |
| D | 1. 200 | 1.400 | 0.047 | 0.055 |
| Е | 1.600 | 1.800 | 0.063 | 0.071 |
| E1 | 2.550 | 2.750 | 0. 100 | 0. 108 |
| L | 0. 475 | 5 REF | 0. 019 | 9 REF |
| L1 | 0.250 | 0.400 | 0.010 | 0.016 |
| θ | 0 ° | 8° | 0 ° | 8° |

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 |
|---------------|---------|------|
| LESD3Z5.0C-MS | SOD-323 | 3000 |



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