



Micro Commercial Components



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ESDLC5V0M5

5 Volts ESD Protection Device

Features

- Halogen free available upon request by adding suffix "-HF"
- For sensitive ESD protection
- Excellent clamping capability
- Low leakage
- ESD rating of class 3(>16KV)per Human Body Mode
- For space saving application
- Fast response ,response time less than 1ns.
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

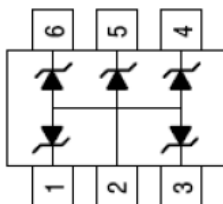
Maximum Ratings

- Operating Junction &StorageTemperature: -55°C to +150°C
- Maximum Thermal Resistance; 833°C/W Junction To Ambient

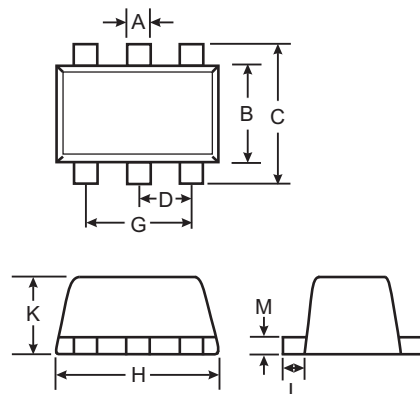
| Parameter | Symbol | Limits | unit |
|---------------------------------|--------|----------------------|------|
| IEC61000-4-2(ESD) Air Contact | | ± 15 ± 15 | KV |
| ESD Voltage per human body mode | | 16 | KV |
| Power Dissipation(Note 1) | Pd | 150 | mw |
| Peak Power Dissipation@8/20us | Ppk | 20 | W |

1. Only 1 diode under power. For all 5 diodes under power,
PD will be 20%. Mounted on FR--4 board with min pad.

PinConfiguration



SOT-563



| DIMENSIONS | | | | | |
|------------|--------|------|------|------|------|
| DIM | INCHES | | MM | | NOTE |
| | MIN | MAX | MIN | MAX | |
| A | .006 | .011 | 0.15 | 0.30 | |
| B | .043 | .049 | 1.10 | 1.25 | |
| C | .061 | .067 | 1.55 | 1.70 | |
| D | .020 | | 0.50 | | |
| G | .035 | .043 | 0.90 | 1.10 | |
| H | .059 | .067 | 1.50 | 1.70 | |
| K | .022 | .023 | 0.56 | 0.60 | |
| L | .004 | .011 | 0.10 | 0.30 | |
| M | .004 | .007 | 0.10 | 0.18 | |



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ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise noted, $V_F = 0.9\text{ V Max.}$ @ $I_F = 10\text{mA}$ for all types)

| Device* | Device Marking | V_{RWM} (V) | I_R (μA) @ V_{RWM} | V_{BR} (V) @ I_T | | I_T | V_C (V) @ I_{PP} | | Capacitance | C (pF) |
|------------|----------------|---------------|--|-------------------------|-----|-------|-------------------------|----------------|-------------|--------|
| | | Max | Max | Min | Max | mA | V_C (V) | I_{PP} (A) | Max | |
| ESDLC5V0M5 | L2 | 5.0 | 1 | 6.2 | 7.2 | 1.0 | 12 | 1.6 | 11 | 10 |



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Ordering Information :

| Device | Packing |
|----------------|-----------------------|
| Part Number-TP | Tape&Reel: 3Kpcs/Reel |

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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www.mccsemi.com

Revision: B

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2013/01/01