

Product data sheet

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MSNUP2105LT1G HF 🧟

Semiconductor Compiance

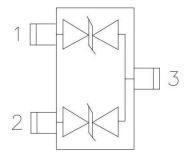


Applications

- USB 2.0 power and data line
- Set-top box and digital TV
- Digital video interface (DVI)
- Notebook Computers
- SIM Ports
- 10/100 Ethernet

SOT-23

Pin Configuration



Mechanical Characteristics

- Package: SOT-23
- Lead Finish: Lead Free
- UL Flammability Classification Rating 94V-0
- Quantity Per Reel:3,000pcs
- Reel Size:7inch

Absolute Maximum Ratings(Tamb=25°C unless otherwise specified)

| Parameter | Symbol | Value | Unit | |
|---------------------------------|------------------|-------------|------|--|
| Peak Pulse Power (8/20µs) | Ррр | 300 | W | |
| ESD per IEC 61000-4-2 (Air) | N | ±30 | Ku. | |
| ESD per IEC 61000-4-2 (Contact) | V _{ESD} | ± 30 | Kv | |
| Operating Temperature Range | TJ | -55 to +125 | °C | |
| Storage Temperature Range | T _{STJ} | -55 to +150 | °C | |



Electrical Characteristics(TA=25°C unless otherwise specified)

| P/N | V _{RWM} (V) | Vbr (V) | l⊤ (mA) | Vc @1A | (Max) | /c (@A) | l _ℝ μΑ (Max) | C (Pf) (Typ.) |
|---------------|-------------------------|------------|------------|-----------|-------|------------|-------------------------------|---------------------|
| MSNUP2105LT1G | 24 | 27 | 1 | 40 | 45 | 5 | 0.2 | 25 |

Characteristic Curves

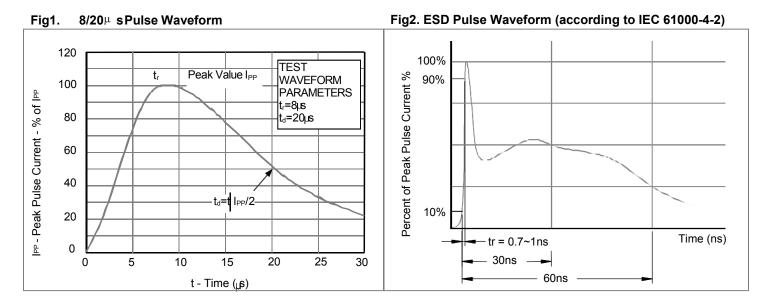
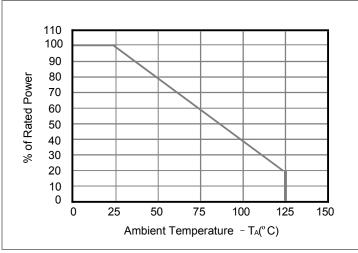


Fig3. Power Derating Curve

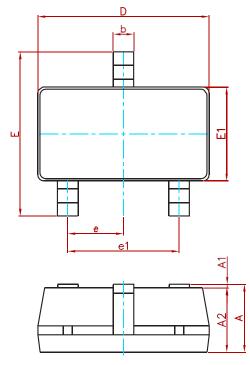


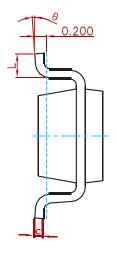


MSNUP2105LT1GHF

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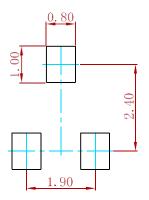
PACKAGE MECHANICAL DATA





| Symbol | Symbol Dimensions In Millimeters | | Dimensions In Inches | | |
|--------|----------------------------------|-------|----------------------|-------|--|
| Symbol | Min. | Max. | Min. | Max. | |
| A | 1.050 | 1.250 | 0.041 | 0.049 | |
| A1 | 0.000 | 0.100 | 0.000 | 0.004 | |
| A2 | 1.050 | 1.150 | 0.041 | 0.045 | |
| b | 0.300 | 0.500 | 0.012 | 0.020 | |
| С | 0.100 | 0.200 | 0.004 | 0.008 | |
| D | 2.820 | 3.020 | 0.111 | 0.119 | |
| E1 | 1.500 | 1.700 | 0.059 | 0.067 | |
| E | 2.650 | 2.950 | 0.104 | 0.116 | |
| e | 0.950(BSC) | | 0.037(BSC) | | |
| e1 | 1.800 | 2.000 | 0.071 | 0.079 | |
| L | 0.300 | 0.600 | 0.012 | 0.024 | |
| 0 | 0° | 8° | 0° | 8° | |

Suggested Pad Layout



Note:

Controlling dimension:in millimeters.
General tolerance:± 0.05mm.
The pad layout is for reference purposes only.

REEL SPECIFICATION

| P/N | PKG | QTY |
|---------------|--------|------|
| MSNUP2105LT1G | SOT-23 | 3000 |



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