

Features

- For Sensitive ESD Protection
- · Excellent Clamping Capability
- · Low Leakage
- · For Space Saving Application
- · Fast Response, Response Time Less than 1ns
- · Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

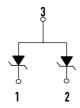
Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: 55°C to +150°C
- Thermal Resistance: 556°C/W Junction to Ambient

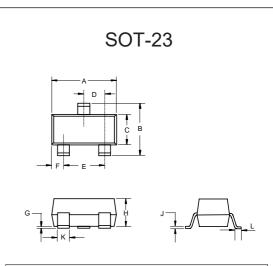
| MCC Part Number | Device Marking | | |
|----------------------------|-----------------|---------------|--|
| ESD3V3AP | 3M3 | | |
| IEC61000-4-2(ESD) | Air Contact | ±15KV ±8KV | |
| JESD22-A114-B(ESD) | Human Body | 16KV | |
| Peak Pulse Current(8/20µs) | I _{PP} | 13.3A | |
| Peak Pulse Power (8/20us) | P _{PK} | 300W | |
| Power Dissipation | P_{D} | 225mW | |

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Circuit and Pin Schematic

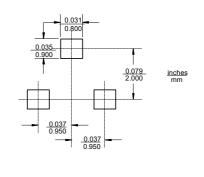


ESD Protection Device



| DIMENSIONS | | | | | | |
|------------|--------|-------|------|------|------|--|
| DIM INCHE | | HES | MM | | NOTE | |
| DIIVI | MIN | MAX | MIN | MAX | NOTE | |
| Α | 0.110 | 0.120 | 2.80 | 3.04 | | |
| В | 0.083 | 0.104 | 2.10 | 2.64 | | |
| С | 0.047 | 0.055 | 1.20 | 1.40 | | |
| D | 0.034 | 0.041 | 0.85 | 1.05 | | |
| E | 0.067 | 0.083 | 1.70 | 2.10 | | |
| F | 0.018 | 0.024 | 0.45 | 0.60 | | |
| G | 0.0004 | 0.006 | 0.01 | 0.15 | | |
| Н | 0.035 | 0.043 | 0.90 | 1.10 | | |
| J | 0.003 | 0.007 | 0.08 | 0.18 | | |
| K | 0.012 | 0.020 | 0.30 | 0.51 | | |
| L | 0.007 | 0.020 | 0.20 | 0.50 | | |

Suggested Solder Pad Layout



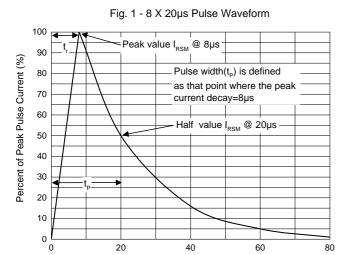


Electrical Characteristics @ 25°C (Unless Otherwise Specified)

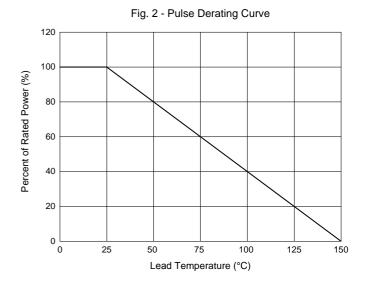
| Parameter | Symbol | Conditions | Min. | Тур. | Max. | Units |
|---------------------------|----------------|---|------|------|------|-------|
| Reverse Working Voltage | V_{RWM} | | | | 3.3 | V |
| Reverse Breakdown Voltage | V_{BR} | I _T =1mA | 5 | | 5.9 | V |
| Reverse Leakage Current | I _R | V _{RWM} =3.3V | | | 10 | μA |
| Forward Voltage | V _F | I _F = 10mA | | | 0.9 | V |
| Clamping Voltage | V _C | I _{PP} =1A, t _P =8/20µs | | | 7.5 | V |
| Junction Capacitance | С | $V_R = 0V$, $f = 1MHz$, Pin 1 to 3 | | 150 | | pF |



Curve Characteristics



Time (µs)





Ordering Information

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

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