

Features

- · Ultra Low Operating Voltage
- · Ultra Low Clamping Voltage
- · Halogen Free Available Upon Request By Adding Suffix "-HF"
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C

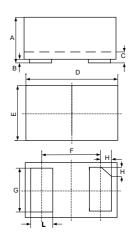
| IEC61000-4-2(ESD) | Air Contact | ±30KV ±30KV |
|-----------------------------|-----------------|----------------|
| IEC61000-4-4 (EFT) @5/50ns | | 40A |
| IEC61000-4-5(Surge) @8/20us | I _{PP} | 8A |
| Peak pulse power(tp=8/20us) | P _{PP} | 80W |

Internal Structure



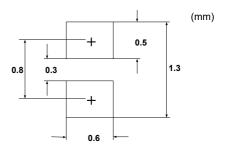
ESD Protection Device

DFN1006-2



| DIMENSIONS | | | | | |
|------------|-------|-------|------|------|------|
| DIM INCHES | | MM | | NOTE | |
| DIIVI | MIN | MAX | MIN | MAX | NOTE |
| Α | 0.018 | 0.022 | 0.45 | 0.55 | |
| В | 0.000 | 0.002 | 0.00 | 0.05 | |
| С | 0.005 | 0.007 | 0.12 | 0.18 | |
| D | 0.037 | 0.041 | 0.95 | 1.05 | |
| Е | 0.022 | 0.026 | 0.55 | 0.65 | |
| F | 0.0 |)26 | 0.6 | 650 | TYP. |
| G | 0.018 | 0.022 | 0.45 | 0.55 | |
| Н | 0.003 | 0.007 | 0.07 | 0.17 | |
| L | 0.008 | 0.012 | 0.20 | 0.30 | |

SUGGESTED SOLDER PAD LAYOUT



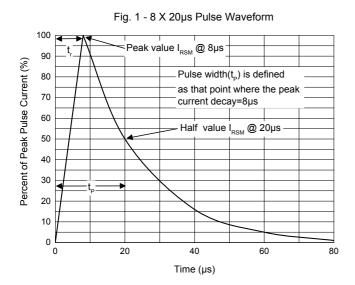


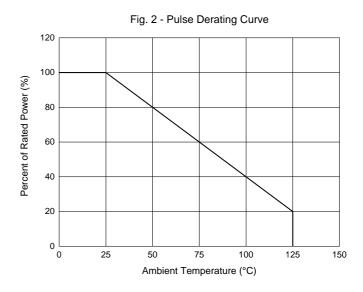
Electrical Characteristics per line @ 25°C (Unless Otherwise Specified)

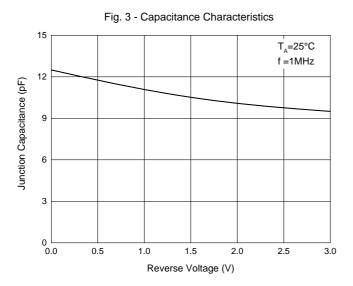
| Parameter | Symbol | Conditions | Min. | Тур. | Max. | Units |
|---------------------------|-----------------|---|------|-------|------|-------|
| Reverse Stand-Off Voltage | V_{RWM} | | | | 3.3 | V |
| Punch-Through Voltage | V _{PT} | I _T =2μA | 3.8 | | | V |
| Snap-Back Voltage | V _{SB} | I _T =50mA | 3.5 | | | V |
| Reverse Leakage Current | I _R | V _{RWM} =3.3V | | 0.005 | 0.05 | μA |
| Clamping Voltage | V _C | I _{PP} =1A, t _P =8/20μs | | | 6 | V |
| Clamping Voltage | V _C | I _{PP} =5A, t _P =8/20μs | | | 8 | V |
| Junction Capacitance | CJ | $V_R = 0V$, $f = 1MHz$ | | 12.5 | 25 | pF |

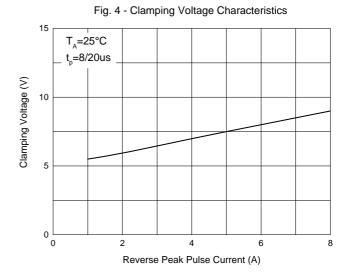


Curve Characteristics











Ordering Information

| Device | Packing |
|----------------|------------------------|
| Part Number-TP | Tape&Reel: 10Kpcs/Reel |

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

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