

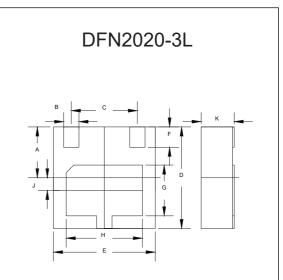
Features

- Low Operating Voltage
- Ultra Low Clamping Voltage
- 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 +125°C
- Storage Temperature Range: -55°C to +150°C



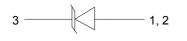


| MCC Part Number | Device Marking |
|--------------------|----------------|
| ESD7V0P4 | 73P |
| | |

| IEC61000-4-2(ESD) | Air Contact | ±30KV ±30KV | |
|----------------------------|-----------------|----------------|--|
| IEC61000-4-4 (EFT) @5/50ns | | 80A | |
| Peak Pulse Current(8/20µs) | I _{PP} | 275A | |
| Peak Pulse Power (8/20µs) | P _{PK} | 6000W | |

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





Transparent top view

| DIMENSIONS | | | | | |
|------------|--------|-------|-------|-------|------|
| DIM | INCHES | | MM | | NOTE |
| DIN | MIN | MAX | MIN | MAX | NOTE |
| А | 0.037 | 0.041 | 0.950 | 1.050 | |
| В | 0.010 | 0.014 | 0.250 | 0.350 | |
| С | 0.0 |)51 | 1. | 30 | TYP. |
| D | 0.075 | 0.083 | 1.900 | 2.100 | |
| Е | 0.075 | 0.083 | 1.900 | 2.100 | |
| F | 0.014 | 0.018 | 0.350 | 0.450 | |
| G | 0.035 | 0.043 | 0.900 | 1.100 | |
| Н | 0.055 | 0.063 | 1.400 | 1.600 | |
| J | 0.008 | 0.012 | 0.200 | 0.300 | |
| К | - | 0.026 | - | 0.650 | |



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

| Parameter | Symbol | Conditions | Min. | Тур. | Max. | Units |
|---------------------------|------------------|---|------|------|------|-------|
| Reverse Working Voltage | V _{RWM} | | | | 7.5 | V |
| Reverse Breakdown Voltage | V _{BR} | I _T = 1mA | 8 | | | V |
| Reverse Leakage Current | I _R | V _{RWM} =7.5V | | | 1 | μA |
| Clamping Voltage | V _C | I _{PP} =20A, t _P =8/20μs | | | 10 | V |
| Clamping Voltage | V _C | I _{PP} =275A, t _P =8/20μs | | | 22 | V |
| Junction Capacitance | CJ | $V_R = 0V, f = 1MHz$ | | | 1500 | pF |



Curve Characteristics

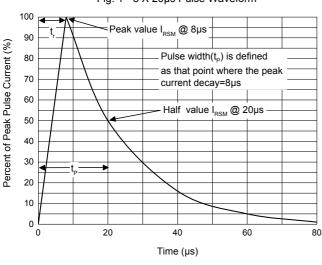
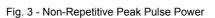


Fig. 1 - 8 X 20µs Pulse Waveform



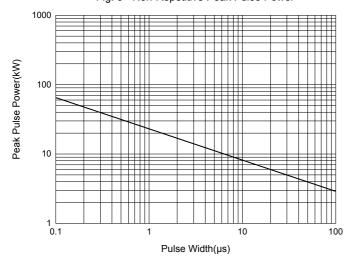
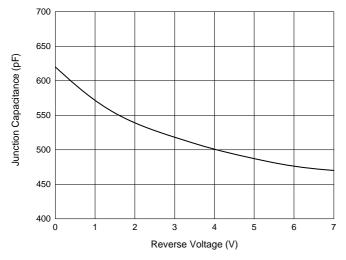


Fig. 5 - Capacitance Characteristics



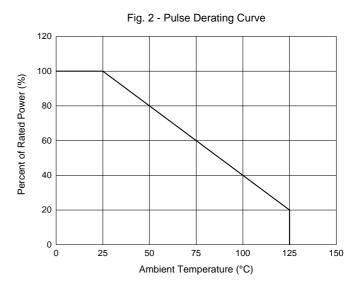
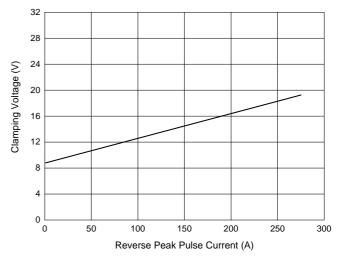


Fig. 4 - Clamping Voltage Characteristics





Ordering Information

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

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