

Features

- Solid-state Silicon technology
- Low leakage current
- Low Clamping Voltage
- Halogen Free. "Green" Device (Note 1)
- Epoxy Meets UL 94 V-0 Flammability Rating
- 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



Device Marking
3M

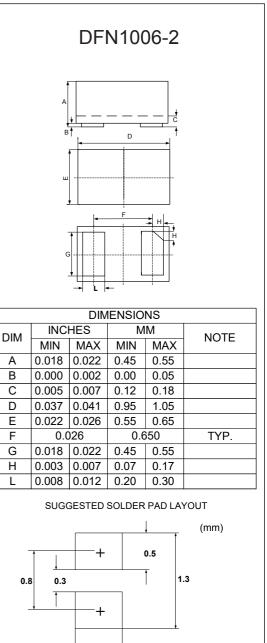
IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV
IEC61000-4-4 (EFT) @5/50ns		80A
Peak Pulse Current(8/20µs)	I _{PP}	60A
Peak Pulse Power (8/20µs)	Р _{РК}	600W

Note:

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

Internal Structure

-0



0.6



Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				3.3	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	3.8			V
Reverse Leakage Current	I _R	V _{RWM} =3.3V			1	μA
Clamping Voltage ^(Note 2)	V _C	I _{PP} =16A, t _P =100ns		5		V
Dynamic Resistance ^(Note 2)	R _{DYN}			0.02		Ω
Clamping Voltage ^(Note 3)	V _C	V _{ESD} =8KV		5		V
Clamping Voltage ^(Note 4)	V _c	I _{PP} =1A, t _P =8/20μs		4.7	6	V
Clamping Voltage ^(Note 4)	V _C	I _{PP} =20A, t _P =8/20μs		5.5	7.5	V
Clamping Voltage ^(Note 4)	Vc	I _{PP} =60A, t _P =8/20μs		7	10	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		95	110	pF

Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Note:

2. TLP Parameter: $Z_0=50\Omega$, $t_p=100$ ns, $t_r=2$ ns, Averaging Window from 60ns to 80ns. RDYN is Calculated from 4A to 16A.

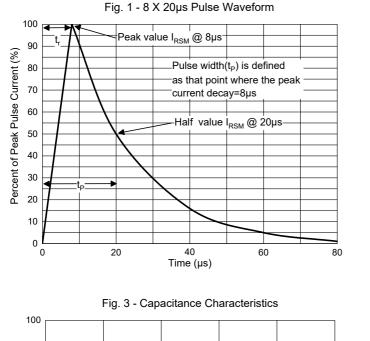
3. Contact Discharge Mode, According to IEC61000-4-2.

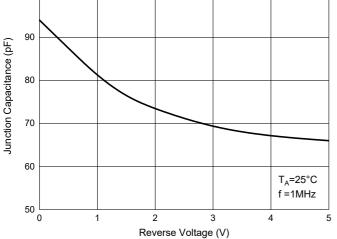
4. Non-repetitive Current Pulse, According to IEC61000-4-5.

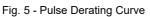


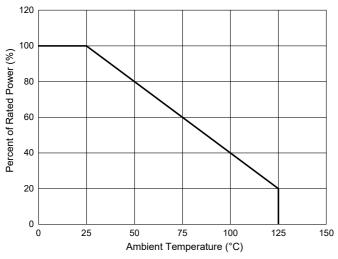


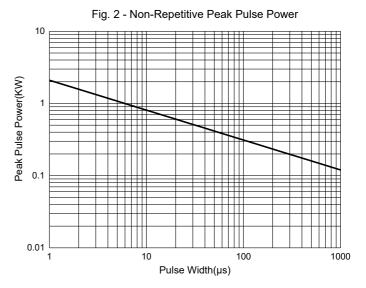
Curve Characteristics













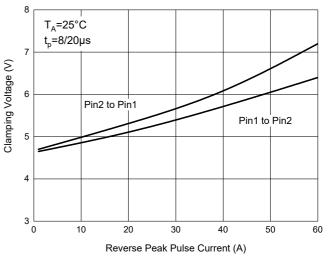
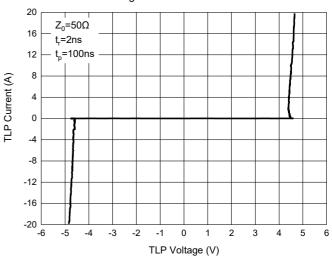


Fig. 6 - TLP Measurement





Ordering Information

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

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