

Features

- ESD Protection of One Line
- Low Leakege Current
- Low Clamping Voltage
- Moisture Sensitivity Level 1
- 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

IEC61000-4-2 (ESD)	Air	±30KV		
IEC01000-4-2 (ESD)	Contact	±30KV		
Peak Pulse Current (8/20µs)	I _{PP}	155A		
Peak Pulse Power (8/20µs) ^(Note2)	P _{PK}	2635W		
Operating Junction Temperature Range	TJ	-55°C to +125°C		
Storage Temperature Range	T _{STG}	-55°C to +150°C		

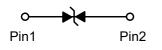
Note :

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

2. Non-repetitive current pulse 8/20 µs exponential decay waveform according to IEC61000-4-5.

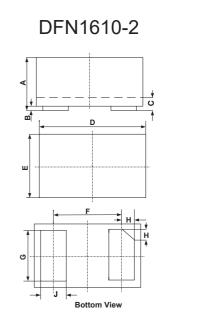
Internal Structure







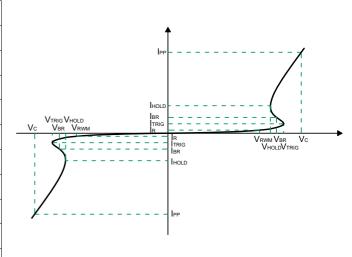




DIMENSIONS						
DIM	INC	HES	MM		NOTE	
DIV	MIN	MAX	MIN	MAX		
Α	0.018	0.022	0.45	0.55		
В	0.000	0.002	0.00	0.05		
С	0.004	0.008	0.10	0.20		
D	0.062	0.066	1.55	1.65		
Е	0.038	0.042	0.95	1.05		
F	0.0)44	1.	10	TYP.	
G	0.030	0.034	0.75	0.85		
Н	0.006	0.010	0.15	0.25		
J	0.014	0.018	0.35	0.45		
	SUGG	ESTED S	OLDER	PAD LAY	OUT	
				l		
	1		-	0.025"	<u></u>	
0	.049"	0.024"	'	Ť	0.074"	
0.040"						



Symbol	Parameter	
V _{RWM}	Peak Reverse Working Voltage	
I _R	Reverse Leakage Current @ VRWM	
V _{BR}	Breakdown Voltage @ IT	
I _{PP}	Maximum Reverse Peak Pulse Current	
V _C	Clamping Voltage @ IPP	
V _{TRIG}	Reverse Trigger Voltage	
I _{TRIG}	Reverse Trigger Current	
V _{HOLD}	Reverse Holding Voltage	
I _{HOLD}	Reverse Holding Current	
CJ	Junction Capacitance	



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

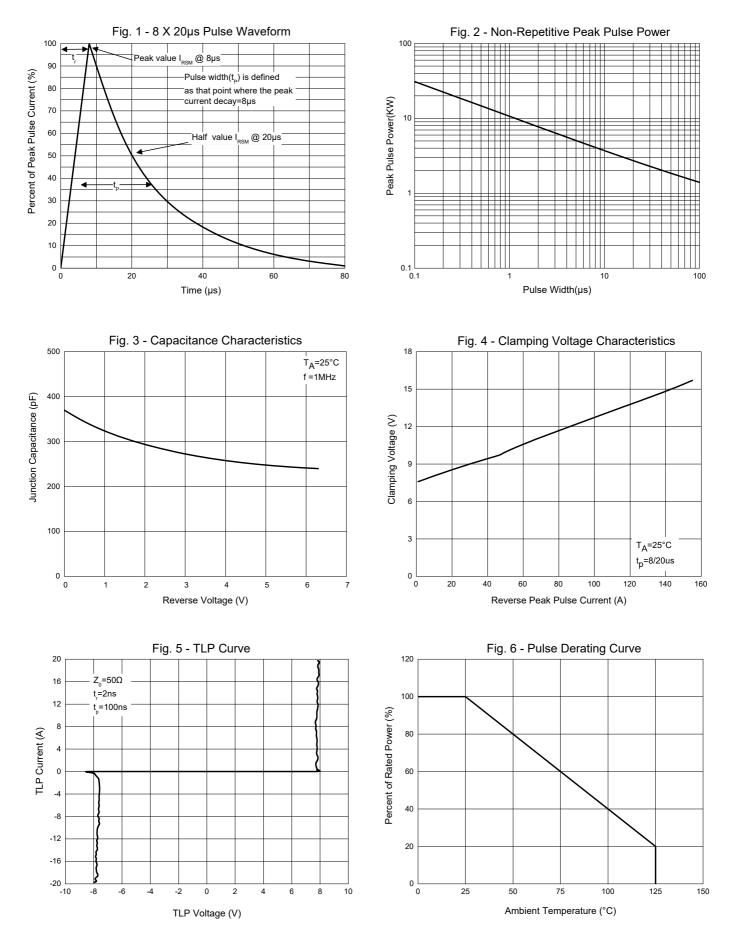
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				6.3	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	6.5			V
Reverse Leakage Current	I _R	V _{RWM} =6.3V			0.5	μA
Clamping Voltage ^{Note1}	V _c	I _{PP} =50A, t _P =8/20μs			12	V
Clamping Voltage ^{Note1}	Vc	I _{PP} =155A, t _P =8/20μs			17	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		370		pF
Dynamic Resistance Note2	R _{DYN}	TLP, t _P =100ns		0.01		Ω

Note :

1.Non-repetitive current pulse 8/20 μ s exponential decay waveform according to IEC61000-4-5. 2.TLP parameter: Z₀=50 Ω , tp=100ns, tr=2ns, averaging window from 60ns to 80ns. R_{DYN} is calculated from 4A to 16A.



Curve Characteristics





Ordering Information

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

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