

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)

Snap Back ESD Protection Device

Maximum Ratings

JE004000 4 0 (E0D)	Air	±30KV		
IEC61000-4-2 (ESD)	Contact	±30KV		
Peak Pulse Current (8/20µs)	I _{PP}	155A		
Peak Pulse Power (8/20µs) ^(Note2)	P _{PK}	2635W		
Operating Junction Temperature Range	T _J	-55°C to +125°C		
Storage Temperature Range	T _{STG}	-55°C to +150°C		

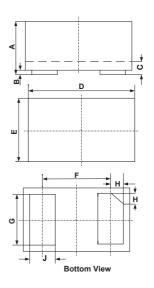
Note:

Internal Structure

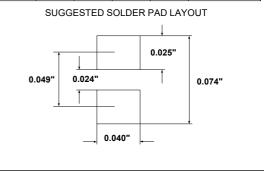
O Pin1 Pin2 Pin1 6H Pin2

Marking Code

DFN1610-2



DIMENSIONS					
DIM INCHES		HES	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	0.004	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	

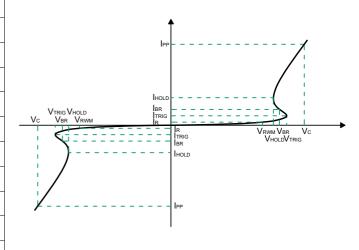


^{1.} Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

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



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		



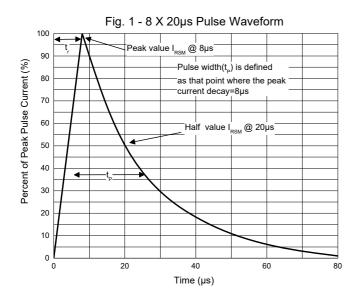
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

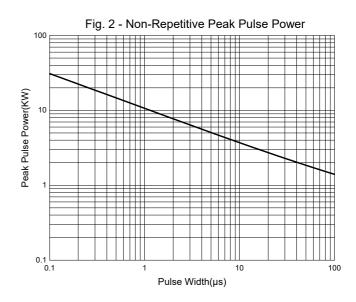
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				6.3	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	6.5			V
Reverse Leakage Current	I _R	V _{RWM} =6.3V			0.5	μΑ
Clamping Voltage ^{Note1}	V _C	I _{PP} =50A, t _P =8/20μs			12	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =155A, 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

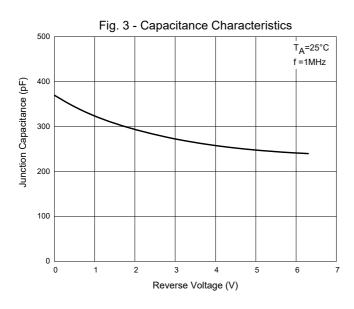
^{1.}Non-repetitive current pulse $8/20\mu s$ exponential decay waveform according to IEC61000-4-5. 2.TLP parameter: Z_0 =50 Ω , tp=100ns, tr=2ns, averaging window from 60ns to 80ns. R_{DYN} is calculated from 4A to 16A.

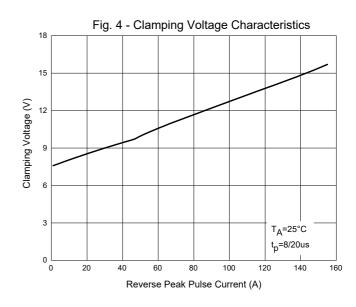


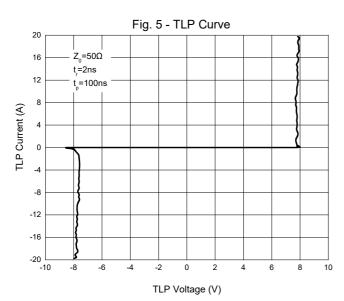
Curve Characteristics

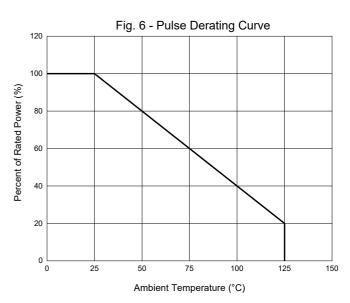














Ordering Information

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

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