

Features

- · Low Clamping Voltage
- Low Leakage Current
- · 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)

ESD Protection Device

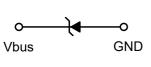
Maximum Ratings

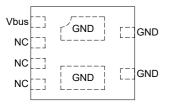
IEC61000-4-2 (ESD)	Air	±30KV
IEC01000-4-2 (E3D)	Contact	±30KV
Peak Pulse Current (8/20µs)	I _{PP}	100A
Peak Pulse Power (8/20µs) ^(Note2)	P _{PK}	3400W
Operating Junction Temperature Range	Т	-55°C to +125°C
Storage Temperature Range	T _{STG}	-55°C to +150°C

Note:

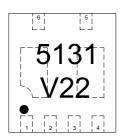
- 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 2. Non-repetitive current pulse 8/20 µs exponential decay waveform according to IEC61000-4-5.

Internal Structure

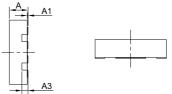


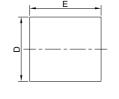


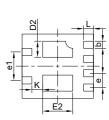
Marking Code



DFN2018-6L

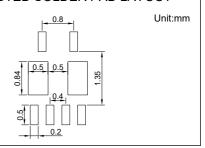






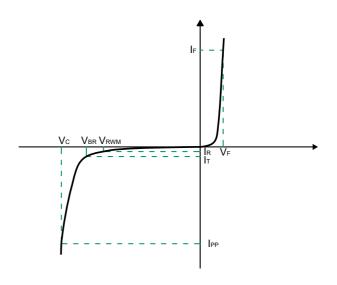
DIM		ММ		NOTE	
DIM	MIN	MAX	MIN	MAX	NOIE
Α	0.018	0.022	0.450	0.550	
A1	0.000	0.002	0.000	0.050	
A3	0.006		0.152		TYP
b	0.006	0.010	0.150	0.250	
D	0.067	0.075	1.700	1.900	
D2	0.014	0.022	0.350	0.550	
E	0.075	0.083	1.900	2.100	
E2	0.029	0.037	0.740	0.940	
е	0.012	0.020	0.300	0.500	
e1	0.028	0.035	0.700	0.900	
e2	0.033	0.041	0.850	1.050	
K	0.008	-	0.200	-	
L	0.008	0.016	0.200	0.400	
R	0.008		0.200		TYP

SUGGESTED SOLDER PAD LAYOUT





Symbol	Parameter	
V_{RWM}	Peak Reverse Working Voltage	
I _R	Reverse Leakage Current @ VRWM	
V _{BR}	Breakdown Voltage @ IT	
IT	Test Current	
I _{PP}	Maximum Reverse Peak Pulse Current	
V _C	Clamping Voltage @ IPP	
P _{PK}	Peak Pulse Power	
C _J	Junction Capacitance	
I _F	Forward Current	
V _F	Forward Voltage @ IF	



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

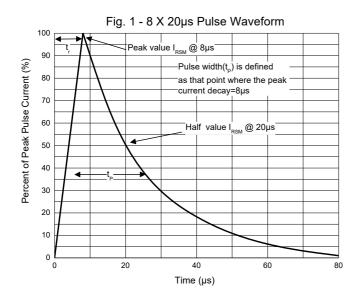
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				22	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	24		26	V
Reverse Leakage Current	I _R	V _{RWM} =22V			1.0	μA
Forward Voltage	V _C	I _F =20mA			1.5	V
Clamping Voltage ^{Note1}	V _C	I_{PP} =50A, t_{P} =8/20 μ s			30	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =100A, t _P =8/20μs			35	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		800	850	pF

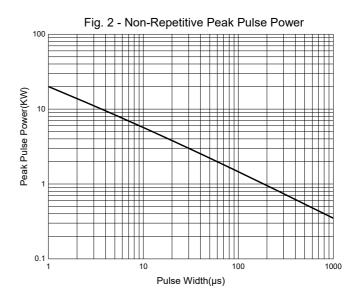
Note:

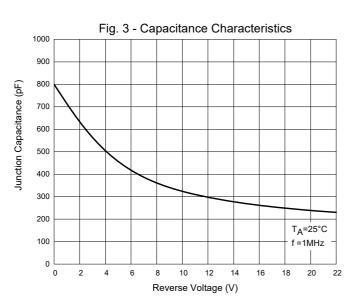
^{1.}Non-repetitive current pulse 8/20µs exponential decay waveform according to IEC61000-4-5.

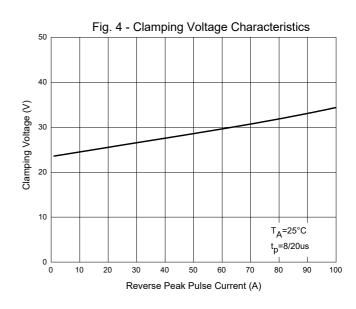


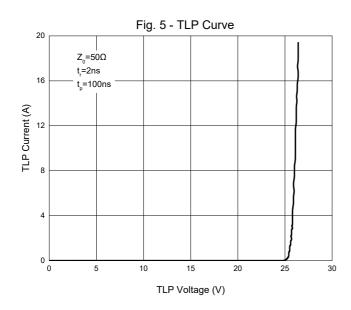
Curve Characteristics

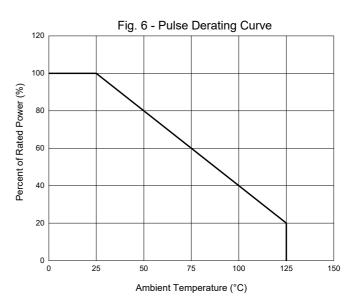














Ordering Information

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

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