

D1

PIN1

12

A1

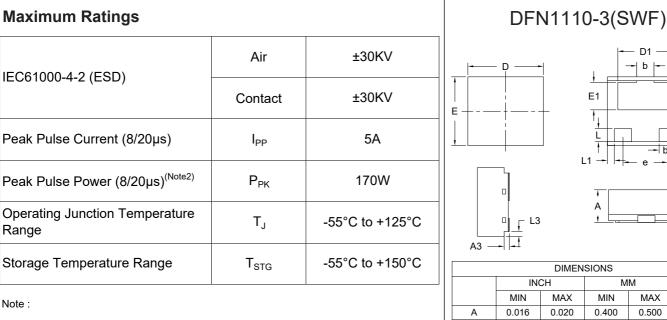
Features

- AECQ-101 Qualified with Wettable Flank
- Low Capacitance
- Low Clamping Voltage
- Ultra 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)

Maximum Ratings

IEC61000-4-2 (ESD)

Snap Back ESD Protection **Device**



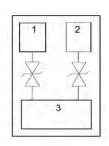


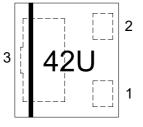
Range

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.

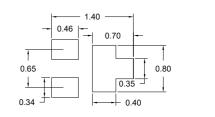
Internal Structure

Marking Code



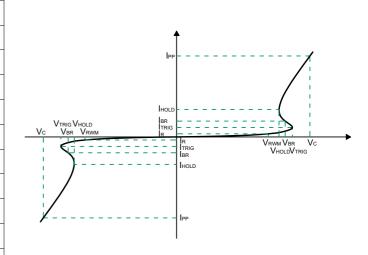


DIMENSIONS								
	INCH		MM		NOTE			
	MIN	MAX	MIN	MAX	INUTE			
А	0.016	0.020	0.400	0.500				
A1	0.000	0.002	0.000	0.050				
A2	0.004		0.100		MIN			
A3	0.005		0.1	MIN				
D	0.041	0.045	1.050	1.150				
Е	0.037	0.041	0.950	1.050				
D1	0.030	0.033	0.750	0.850				
E1	0.014	0.018	0.350	0.450				
b	0.008	0.012	0.200	0.300				
b1	0.008	0.012	0.200	0.300				
е	0.024	0.028	0.600	0.700				
L	0.006	0.009	0.140	0.240				
L1	0.004		0.100		TYP			
L2	0.008	0.012	0.210	0.310				
L3	0.000	0.003	0.000	0.070				
SUGGESTED SOLDER PAD LAYOUT (mm)								





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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		
L			



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

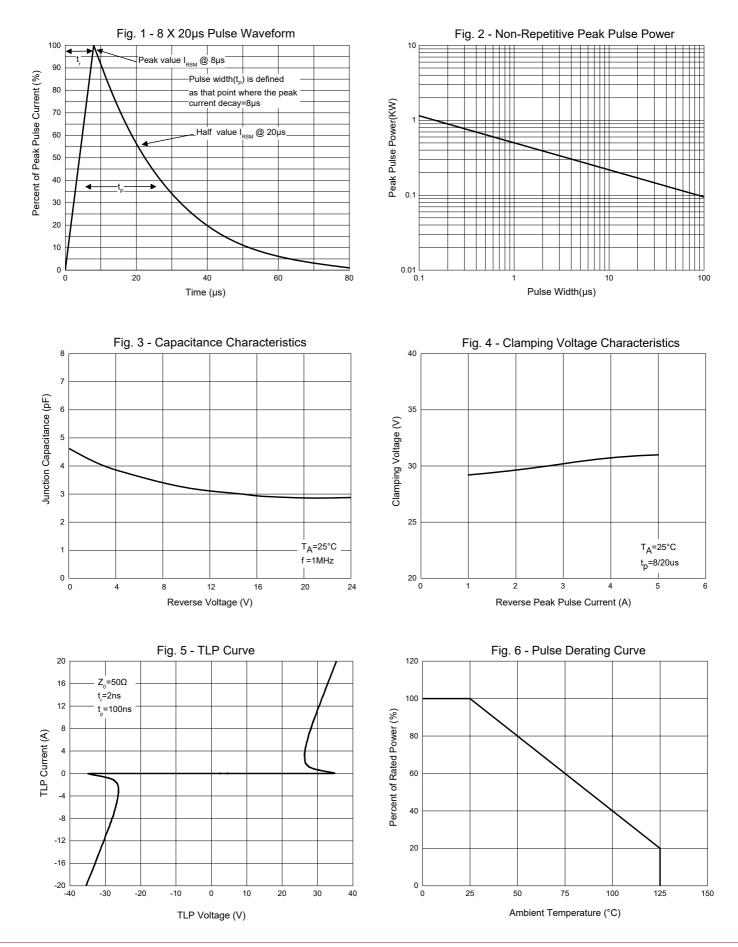
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				24	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	26.5			V
Reverse Leakage Current	I _R	V _{RWM} =24V			0.2	μA
Clamping Voltage ^{Note1}	V _C	I _{PP} =1A, t _P =8/20μs			34	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =5A, t _P =8/20μs			34	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		5		pF
Dynamic Resistance Note2	R _{DYN}	TLP, t _P =100ns		0.57		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: 10Kpcs/Reel

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