

Features

- Protects One Data or Power Line
- Low Clamping Voltage
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- 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

MCC Part Number	Device Marking
ESD4571P6	47

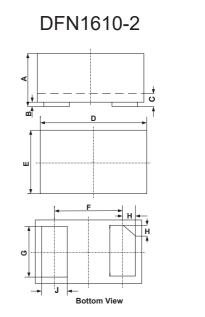
IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV
Peak Pulse Current(8/20µs)	I _{PP}	180A
Power Dissipation	Pd	3200W

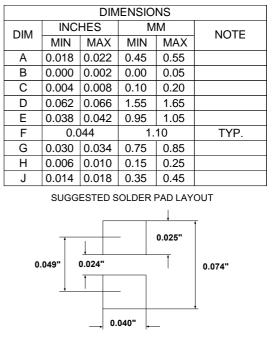
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Circuit and Pin Schematic

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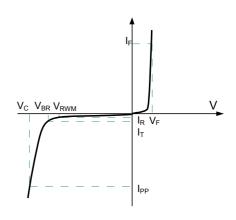






ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Symbol	Parameter	
V _{RWM}	Peak Reverse Working Voltage	
I _R	Reverse Leakage Current @ V _{RWM}	
V _{BR}	Breakdown Voltage @ I _⊺	
Ι _Τ	Test Current	
I _{PP}	Maximum Reverse Peak Pulse Current	
V _C	Clamping Voltage @ IPP	
P _{PP}	Peak Pulse Power	
CJ	Junction Capacitance	
l _F	Forward Current	
V _F	Forward Voltage @ I _F	



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				4.5	V
Reverse Breakdown Voltage	V _{BR}	I _T = 1mA	4.8			V
Reverse Leakage Current	I _R	V _{RWM} =4.5V			0.2	μA
Forward Voltage	V _F	I _F = 10mA		0.75		V
Clamping Voltage	V _c	I _{PP} =10A, t _P =8/20μs			7	V
Clamping Voltage	V _c	I _{PP} =180A, t _P =8/20μs			18	V
Junction Capacitance	CJ	$V_R = 0V, f = 1MHz$		330	400	pF



Curve Characteristics

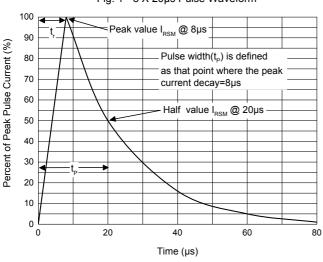


Fig. 1 - 8 X 20µs Pulse Waveform

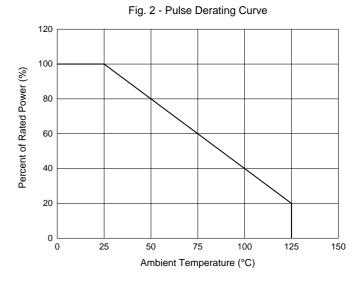


Fig. 3 - Capacitance Characteristics

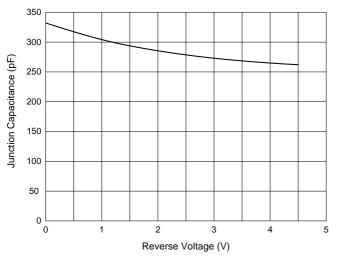
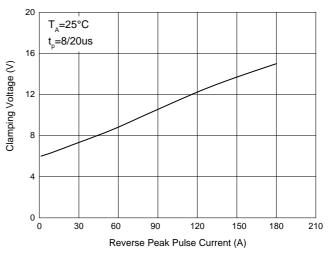


Fig. 4 - Clamping Voltage Characteristics





Ordering Information

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

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