

Features

- · Uni-Directional ESD Protection of One Line
- · High Peak Pulse Current Capability
- · Ultra 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

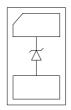
- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking
ESD0571P6	91
ESD0771P6	76
ESD1271P6	72
ESD2471P6	74

IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV
Peak Pulse Power (8/20µs)	P _{PK}	1875W

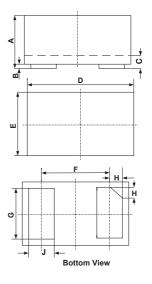
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Circuit and Pin Schematic

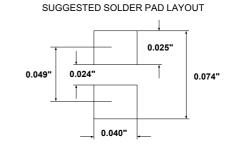


ESD Protection Device

DFN1610-2



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIL	
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	0.044		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		





Electrical Characteristics @ 25°C (Unless Otherwise Specified)

ESD0571P6

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	6			V
Reverse Leakage Current	I _R	V _{RWM} =5V			1	μΑ
Forward Voltage	V _F	I _F =10mA			1.2	V
Peak Pulse Current	I _{PP}	t _P =8/20µs			125	А
Clamping Voltage	V _C	I _{PP} =10A, t _P =8/20μs			9	V
Clamping Voltage	V _C	I _{PP} =125A, t _P =8/20μs			15	V
Junction Capacitance	CJ	V _R =0V, f=1MHz			650	pF

ESD0771P6

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				7	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	7.5			V
Reverse Leakage Current	I _R	V _{RWM} =7V			0.5	μΑ
Forward Voltage	V _F	I _F =10mA			1.2	V
Peak Pulse Current	I _{PP}	t _P =8/20µs			115	Α
Clamping Voltage	V _C	I _{PP} =10A, t _P =8/20μs			12	V
Clamping Voltage	V _C	I _{PP} =115A, t _P =8/20μs			16.5	V
Junction Capacitance	CJ	V _R =0V, f=1MHz			550	pF

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Electrical Characteristics @ 25°C (Unless Otherwise Specified)

ESD1271P6

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				12	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	12.6			V
Reverse Leakage Current	I _R	V _{RWM} =12V			0.1	μA
Forward Voltage	V _F	I _F =10mA			1.2	V
Peak Pulse Current	I _{PP}	t _P =8/20µs			75	А
Clamping Voltage	V _C	I _{PP} =10A, t _P =8/20μs			18	V
Clamping Voltage	V _C	I _{PP} =75A, t _P =8/20μs			25	V
Junction Capacitance	CJ	V _R =0V, f=1MHz			500	pF

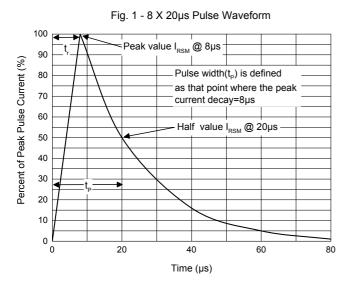
ESD2471P6

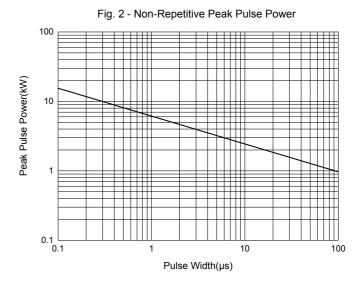
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				24	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	26.7			V
Reverse Leakage Current	I _R	V _{RWM} =24V			0.1	μΑ
Forward Voltage	V _F	I _F =10mA			1.2	V
Peak Pulse Current	I _{PP}	t _P =8/20µs			35	Α
Clamping Voltage	V _C	$I_{PP}=10A, t_{P}=8/20\mu s$			42	V
Clamping Voltage	V _C	I _{PP} =35A, t _P =8/20μs			53.5	V
Junction Capacitance	CJ	V _R =0V, f=1MHz			200	pF

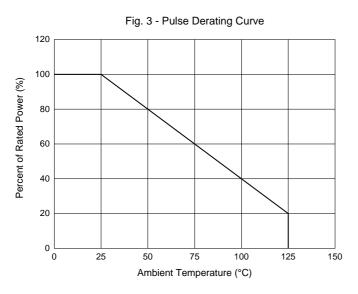
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Curve Characteristics









Ordering Information

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

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