



Product data sheet

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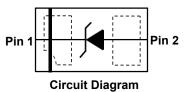


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Feature

1600W Peak pulse power per line (t_P = 8/20µs) DFN1610-2 package Response time is typically < 1 ns Protect one I/O or power line Low clamping Voltage RoHS compliant Transient protection for data lines to IEC 61000-4-2(ESD) ±30KV(air), ±30KV(contact); IEC 61000-4-4 (EFT) 80A (5/50ns) IEC 61000-4-5 (Lightning) 130A (8/20us)





DFN1610-2

Applications

Cell phone handsets and accessories Personal digital assistants (PDA's) Notebooks, desktops, and servers Portable instrumentation Cordless phones Digital cameras Peripherals MP3 players

Mechanical Characteristics

Lead finish:100% matte Sn(Tin) Mounting position: Any Qualified max reflow temperature:260°C Pure tin plating: 7 ~ 17 um Pin flatness:≤3mil Device meets MSL 3 requirements

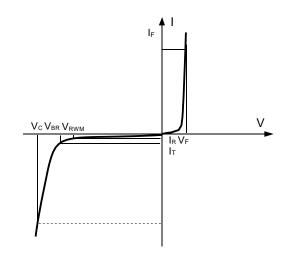


UCLAMP0571P-MS HF 🐼

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Electronics Parameter

Symbol	Parameter	
V _{RWM}	Peak Reverse Working Voltage	
I _R	Reverse Leakage Current @ V _{RWM}	
V _{BR}	Breakdown Voltage @ I⊤	
IT	Test Current	
Ірр	Maximum Reverse Peak Pulse Current	
Vc	Clamping Voltage @ IPP	
P _{PP}	Peak Pulse Power	
С	Junction Capacitance	
IF	Forward Current	
VF	Forward Voltage @ I⊧	



Electrical characteristics per line@25°C(unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Peak Reverse Working Voltage	V _{RWM}				5	V
Breakdown Voltage	V _{BR}	I _t =1mA	6	7	8	V
Reverse Leakage Current	I _R	V _{RWM} =5V			2	μA
Clamping Voltage	Vc	I _{PP} =20A t _P = 8/20µs		8	9	V
Clamping Voltage	Vc	I _{PP} =70A t _P = 8/20µs		10	11	V
Clamping Voltage	Vc	I _{PP} =130A t _P = 8/20μs		12.5	14	V
Junction Capacitance	Cj	V_R =0V f = 1MHz	800	1000	1200	pF

Absolute maximum rating@25℃

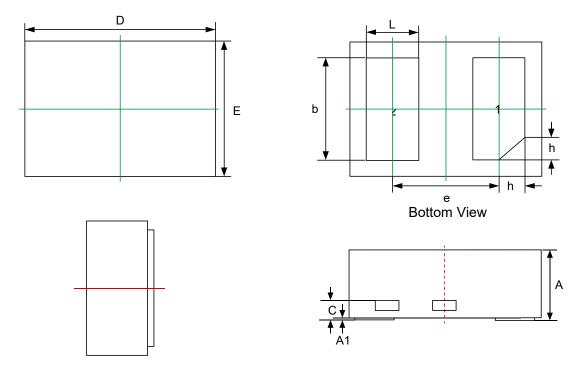
Rating	Symbol	Value	Units
Peak Pulse Power ($t_P = 8/20\mu S$)	P _{pp}	1600	W
Lead Soldering Temperature	ΤL	260 (10 sec)	°C
Operating Temperature	TJ	-55 to +150	°C
Storage Temperature	T _{STG}	-55 to +150	°C



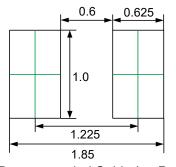
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Product dimension (DFN1610-2)



Dim	Millimeters		
	MIN	MAX	
А	0.45	0.60	
A1		0.05	
b	0.75	0.85	
с	0.10	0.20	
D	1.55	1.65	
е	1.10BSC		
E	0.95	1.05	
L	0.35	0.45	
h	0.15	0.25	



Recommended Soldering Pad

REEL SPECIFICATION

P/N	PKG	QTY
UCLAMP0571P-MS	DFN1610-2	3000



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