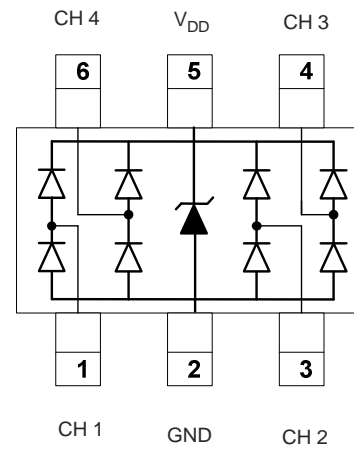


Features

- Ultra low leakage: nA level
- Operating voltage: 5V
- Low clamping voltage
- – IEC 61000-4-2 (ESD) immunity test
 - Air discharge: ±15kV
 - Contact discharge: ±10kV
- IEC61000-4-4 (EFT) 40A (5/50ns)
- IEC61000-4-5 (Lightning) 5A (8/20 μs)



Applications

- USB 2.0 power and data line
- Set-top box and digital TV
- Digital video interface (DVI)
- Notebook Computers
- SIM Ports

Absolute Maximum Ratings(Tamb=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20μs)	P _{pp}	80	W
ESD per IEC 61000-4-2 (Air)	V	± 15	Kv
ESD per IEC 61000-4-2 (Contact)		± 10	
Operating Temperature Range	T _J	-55 to +125	°C
Storage Temperature Range	T _{STJ}	-55 to +150	°C

Electrical Characteristics(TA=25°C unless otherwise specified)

P/N	V _{RWM} (V)	V _{BR} (V)	I _T (mA)	V _C @1A	V _C		I _R μA (Max)	C (Pf) (Typ.)
					(Max)	(@A)		
RCLAMP0504S	5	6	1	12	16	5	1	0.6

Characteristic Curves

Fig1. 8/20μ s Pulse Waveform

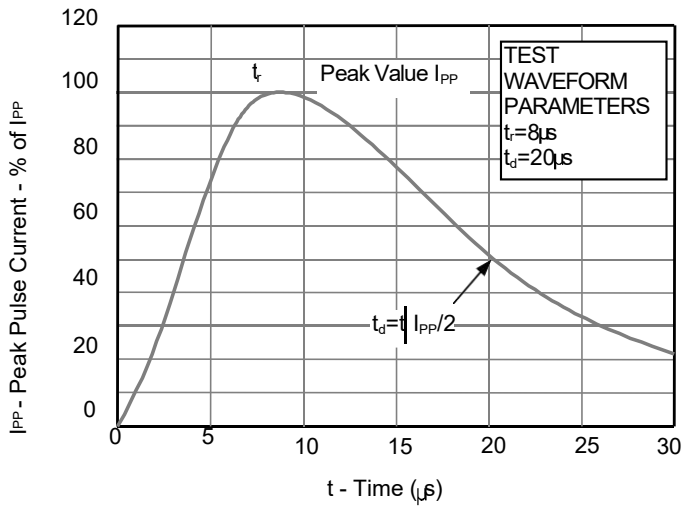


Fig2. ESD Pulse Waveform (according to IEC 61000-4-2)

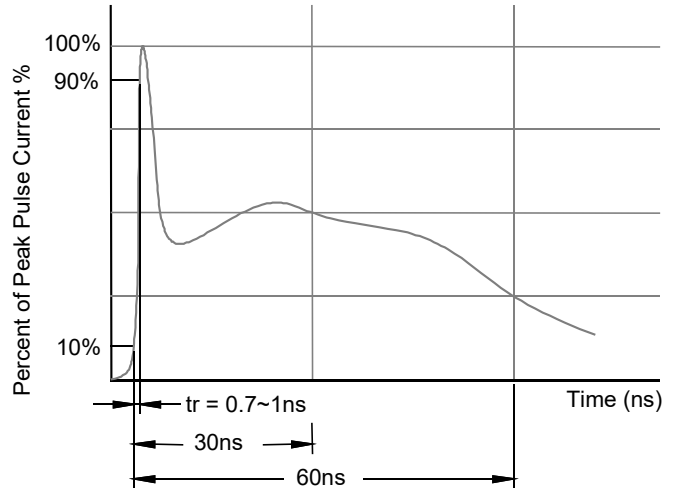
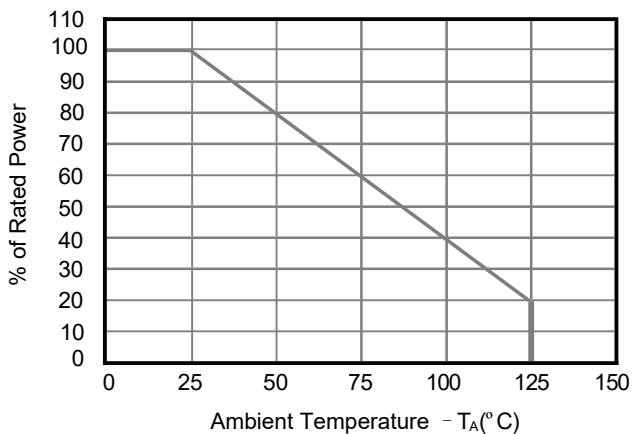


Fig3. Power Derating Curve



SOT23-6

Marking

Ordering information

Order code	Package	Base qty	Delivery mode
UMW RCLAMP0504S	SOT23-6	3000	Tape and reel

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