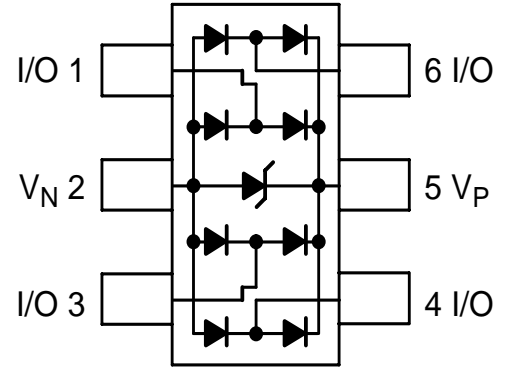


Features:

- Low Capacitance (3 pF Maximum Between I/O Lines)
- ESD Rating of Class 3B (Exceeding 8 kV) per Human Body model and Class C (Exceeding 400 V) per Machine Model
- Protection for the Following IEC Standards:
IEC 61000-4-2 (ESD) 15 kV (air) 8 kV (contact)
IEC 61000-4-4 (EFT) 40 A (5/50 ns)
IEC 61000-4-5 (Lightning) 23 A (8/20)
- UL Flammability Rating of 94 V-0
- This is a Pb-Free Device



Typical Applications:

- High Speed Communication Line Protection
- USB 1.1 and 2.0 Power and Data Line Protection
- Digital Video Interface (DVI) and HDMI
- Monitors and Flat Panel Displays
- MP3

MAXIMUM RATINGS($T_J = 25^{\circ}\text{C}$ unless otherwise noted)

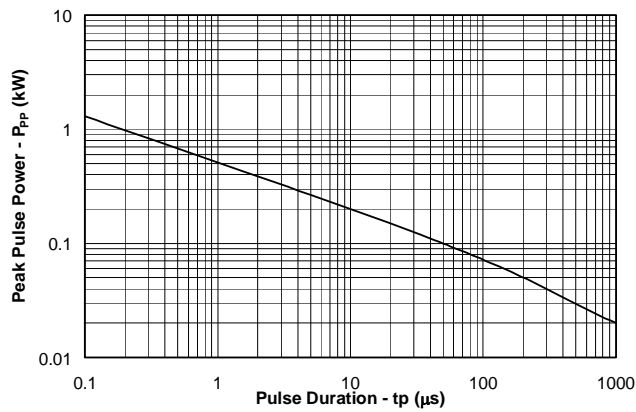
Rating	Symbol	Value	Units
Peak Pulse Power ($t_p = 8/20\mu\text{s}$)	P_{pk}	150	W
Peak Pulse Current ($t_p = 8/20\mu\text{s}$)	I_{pp}	6	A
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	V_{ESD}	15 8	kV
Operating Temperature	T_J	-55 to +125	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55 to +150	$^{\circ}\text{C}$

Electrical Characteristics (T=25°C)

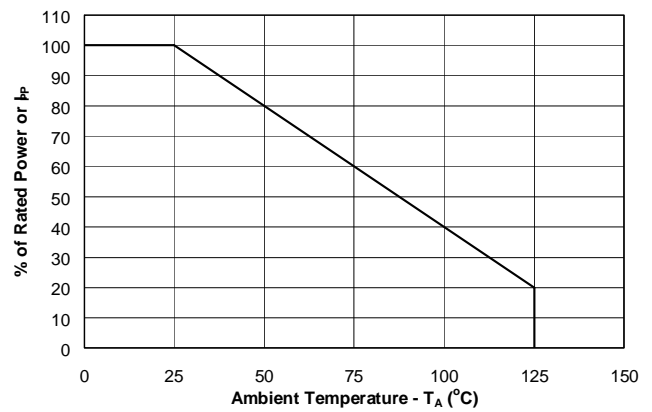
Parameter	Symbol	Conditions	Minimum	Typical	Maximum	Units
Reverse Stand-Off Voltage	V_{RWM}	Pin 5 to 2			3.3	V
Reverse Breakdown Voltage	V_{BR}	$I_t = 1mA$ Pin 5 to 2	6			V
Reverse Leakage Current	I_R	$V_{RWM} = 5V, T=25^\circ C$ Pin 5 to 2			3	μA
Clamping Voltage	V_C	$I_{PP} = 1A, t_p = 8/20\mu s$ Any pin to pin 2			15	V
Clamping Voltage	V_C	$I_{PP} = 6A, t_p = 8/20\mu s$ Any pin to pin 2			25	V
Junction Capacitance	C_j	$V_R = 0V, f = 1MHz$ Any I/O pin to pin 2			3	pF
		$V_R = 0V, f = 1MHz$ Between I/O pins			1.5	pF

Note 1: I/O pins are pin 1, 3, 4, and 6

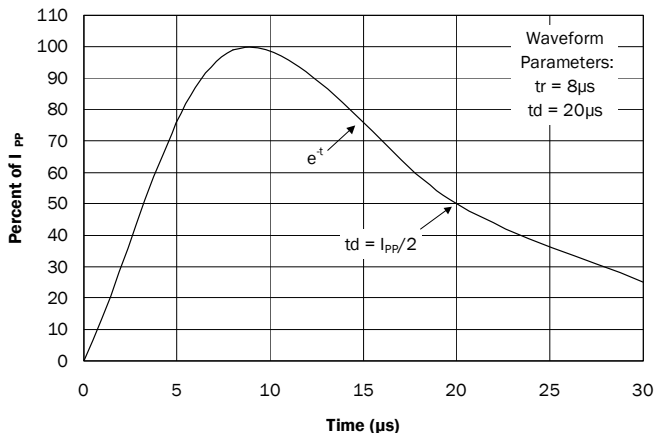
Non-Repetitive Peak Pulse Power vs. Pulse Time



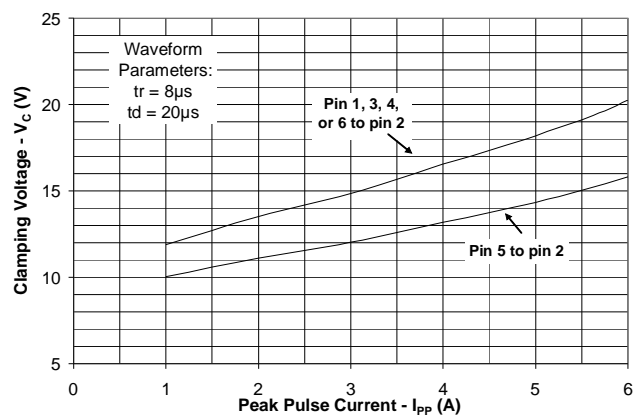
Power Derating Curve



Pulse Waveform

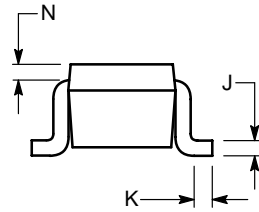
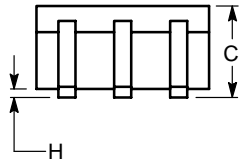
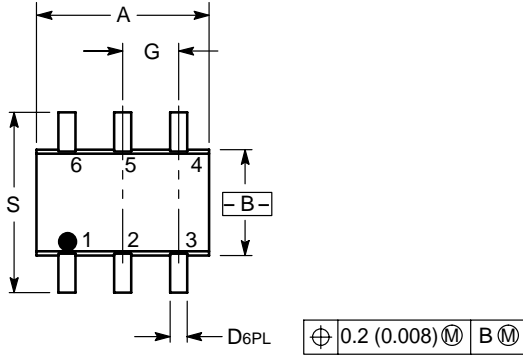


Clamping Voltage vs. Peak Pulse Current

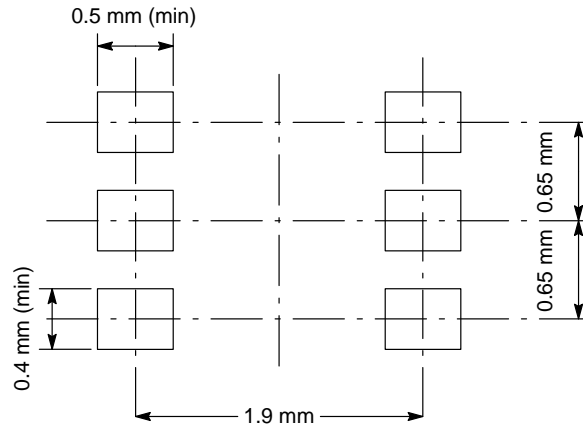


PACKAGE DIMENSIONS

SOT-363



- PIN 1. EMITTER 2
- 2. BASE 2
- 3. COLLECTOR 1
- 4. EMITTER 1
- 5. BASE 1
- 6. COLLECTOR 2

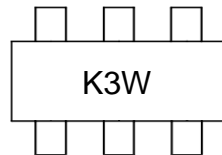


NOTES:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: INCH.

DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.071	0.087	1.80	2.20
B	0.045	0.053	1.15	1.35
C	0.031	0.043	0.80	1.10
D	0.004	0.012	0.10	0.30
G	0.026 BSC		0.65 BSC	
H	---	0.004	---	0.10
J	0.004	0.010	0.10	0.25
K	0.004	0.012	0.10	0.30
N	0.008 REF		0.20 REF	
S	0.079	0.087	2.00	2.20

Marking



Ordering information

Order code	Package	Base qty	Delivery mode
UMW PESD3V3L5UY	SOT-363	3000	Tape and reel