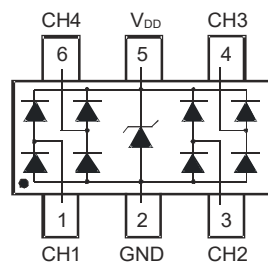


1.Features

- IEC 61000-4-2 (ESD): Air $\pm 15\text{kV}$,
Contact $\pm 8\text{kV}$
- Low Channel Input Capacitance of
0.6pF Typical
- 4 Channels of ESD Protection
- Typically Used at High Speed Ports such as
USB 2.0, USB3.0, IEEE1394, Serial ATA, DVI,
HDMI, PCI

2.Pinning information



SOT-363

3.Maximum Ratings ($T_A=25^\circ\text{C}$, unless otherwise specified.)

Parameter	Symbol	Conditions	Value	Units
Peak Pulse Current	I_{PP}	8/20 μs , Figure 3	5	A
ESD Protection – Contact Discharge	$V_{ESD_Contact}$	Standard IEC 61000-4-2	± 8	kV
ESD Protection – Air Discharge	V_{ESD_Air}	Standard IEC 61000-4-2	± 15	kV

4.Thermal Characteristics

Parameter	Symbol	Value	Units
Power Dissipation (Note 5)	P_D	200	mW
Thermal Resistance, Junction to Ambient (Note 5)	$R_{\theta JA}$	625	$^\circ\text{C}/\text{W}$
Junction and Storage Temperature Range	T_J, T_{STG}	-65 to 150	$^\circ\text{C}$



5. Electrical Characteristics

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Reverse Standoff Voltage	V_{RWM}				5.5	V
Channel Leakage Current (Note 6, 7)	I_R	$V_R=3V$		1	100	nA
Reverse breakdown voltage	V_{BR}	$I_R=1mA$, from pin 5 to pin 2	6		9	V
Forward Voltage	V_F	$I_F=8mA$		0.8		V
Dynamic Resistance	R_{DYN}	$I_{PP}=1A$, $t_p=8/20\mu s$		0.9		Ω
I/O to GND Capacitance	$C_{(I/O-GND)}$	$V_{(I/O-GND)}=0V$, $f=1MHz$		1	1.5	pF
I/O to I/O Capacitance	$C_{(I/O-I/O)}$	$V_{(I/O-I/O)}=0V$, $f=1MHz$		0.6		pF

Notes:

1. Short duration pulse test used to minimize self-heating effect.
2. Measured from pin 1, 3, 4, 5 and 6 to GND.

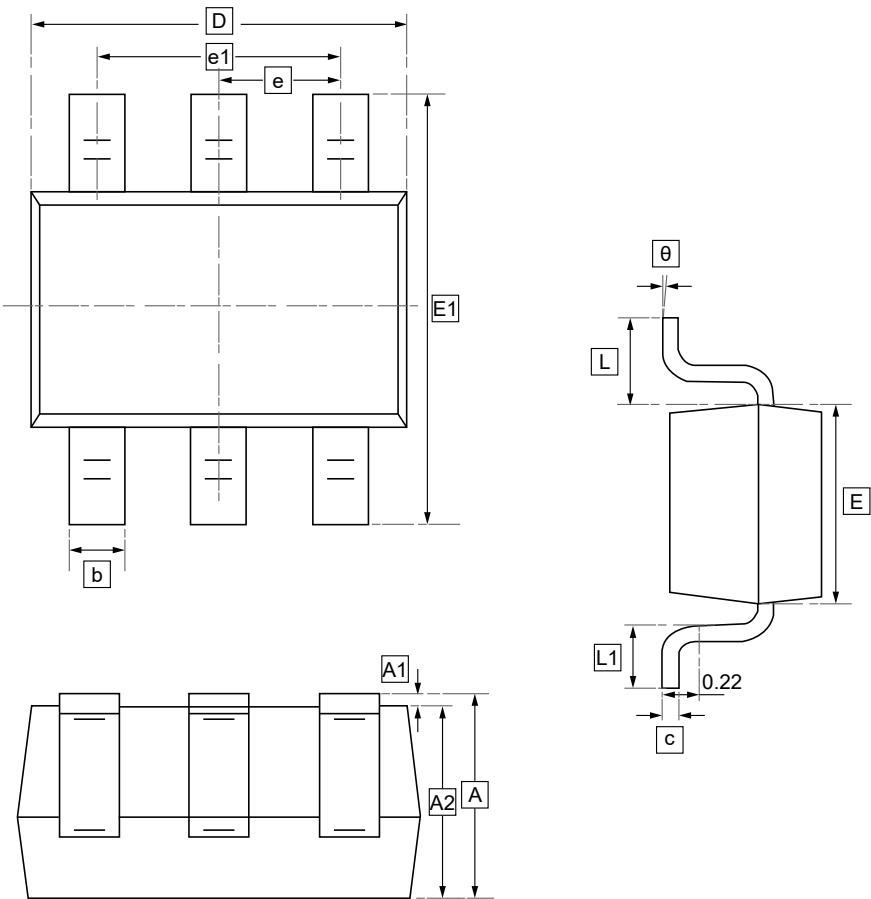


6. Typical characteristic

Figure 1: Power Derating Curve	Figure 2: Pulse Derating Curve
Figure 3: Pulse Waveform	Figure 4: Typical Forward Characteristics
Figure 5: Typical Reverse Characteristics	Figure 6: Typical Total Capacitance vs. Reverse Voltage



9.SOT-363 Package Outline Dimensions



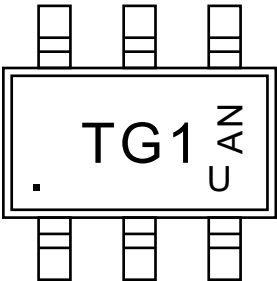
DIMENSIONS (mm are the original dimensions)

Symbol	A	A1	A2	b	c	D	E	E1	e	e1	L	L1
Min	0.900	0.000	0.900	0.150	0.080	2.000	1.150	2.150	0.65	1.200	0.525	0.260
Max	1.100	0.100	1.000	0.350	0.150	2.200	1.350	2.450	TYP	1.400	REF	0.460

Symbol	θ
Min	0°
Max	8°



8.Ordering information



Order Code	Package	Base QTY	Delivery Mode
UMW DRTR5V0U4S-7	SOT-363	3000	Tape and reel



9.Disclaimer

UMW reserves the right to make changes to all products, specifications. Customers should obtain the latest version of product documentation and verify the completeness and currency of the information before placing an order.

When applying our products, please do not exceed the maximum rated values, as this may affect the reliability of the entire system. Under certain conditions, any semiconductor product may experience faults or failures. Buyers are responsible for adhering to safety standards and implementing safety measures during system design, prototyping, and manufacturing when using our products to prevent potential failure risks that could lead to personal injury or property damage.

Unless explicitly stated in writing, UMW products are not intended for use in medical, life-saving, or life-sustaining applications, nor for any other applications where product failure could result in personal injury or death. If customers use or sell the product for such applications without explicit authorization, they assume all associated risks.

When reselling, applying, or exporting, please comply with export control laws and regulations of China, the United States, the United Kingdom, the European Union, and other relevant countries, regions, and international organizations.

This document and any actions by UMW do not grant any intellectual property rights, whether express or implied, by estoppel or otherwise. The product names and marks mentioned herein may be trademarks of their respective owners.