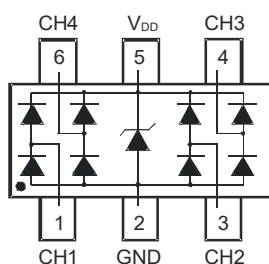


1.Features

- IEC 61000-4-2 (ESD): Air $\pm 15\text{kV}$,
Contact $\pm 8\text{kV}$
- Low Channel Input Capacitance of
0.5pF 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	$^\circ\text{C/W}$
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

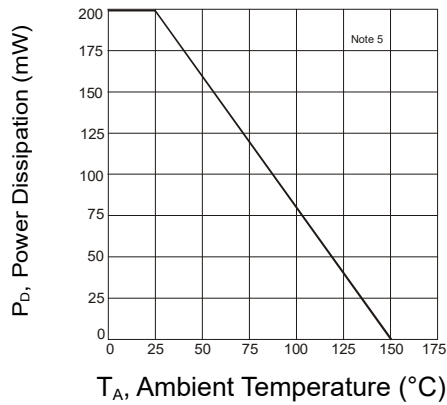


Figure 1: Power Derating Curve

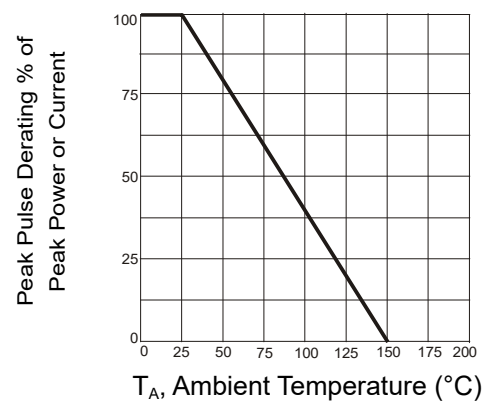


Figure 2: Pulse Derating Curve

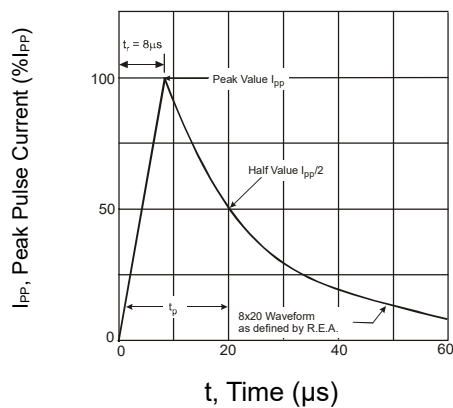


Figure 3: Pulse Waveform

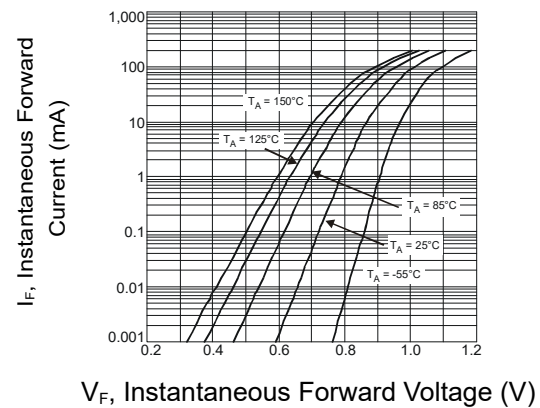


Figure 4: Typical Forward Characteristics

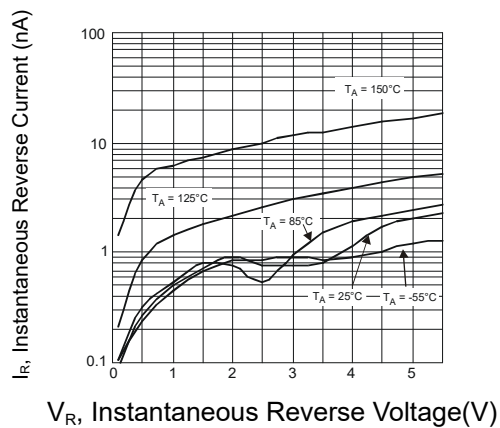


Figure 5: Typical Reverse Characteristics

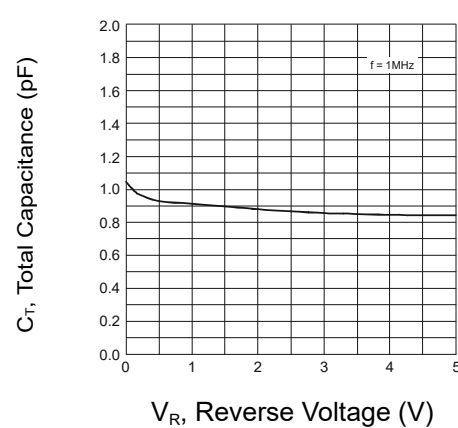
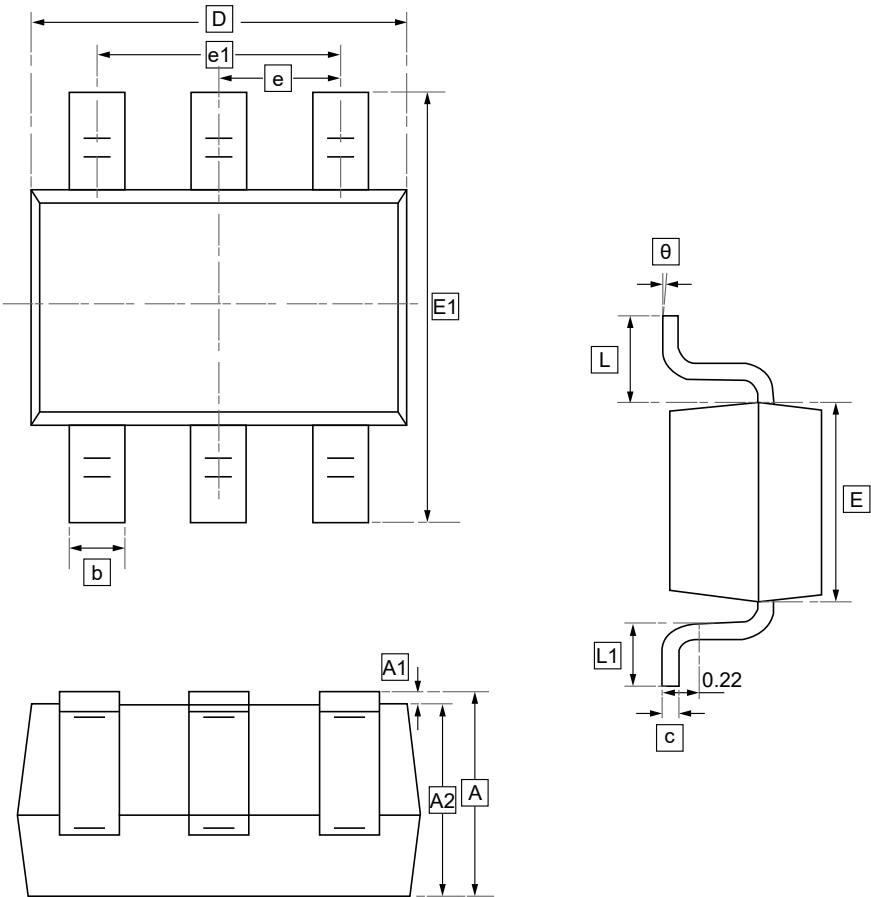


Figure 6: Typical Total Capacitance vs. Reverse Voltage



9.SOT-363 Package Outline Dimensions



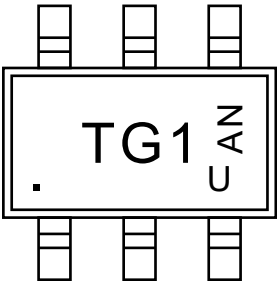
DIMENSIONS (mm are the original dimensions)

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

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