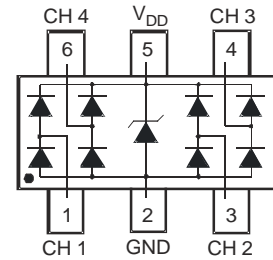


Features

- IEC 61000-4-2 (ESD): Air ±15kV, Contact ±8kV
- 4 Channels of ESD Protection
- Low Channel Input Capacitance of 1.0pF Typical
Typically Used at High Speed Ports such as USB 2.0,
- IEEE1394, Serial ATA, DVI, HDMI, PCI



Device Schematic

Maximum Ratings (@T_A = +25°C, unless otherwise specified)

Characteristic	Symbol	Value	Unit	Conditions
Peak Pulse Current	I _{pp}	5	A	8/20μs, Per Figure 2
ESD Protection – Contact Discharge	V _{ESD_Contact}	±8	kV	Standard IEC 61000-4-2
ESD Protection – Air Discharge	V _{ESD_Air}	±15	kV	Standard IEC 61000-4-2

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 5)	P _D	200	mW
Thermal Resistance, Junction to Ambient (Note 5)	R _{θJA}	625	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150	°C

Electrical Characteristics (@T_A = +25°C, unless otherwise specified)

Characteristic	Symbol	Min	Typ	Max	Unit	Test Conditions
Reverse Standoff Voltage	V _{RWM}			5.5	V	
Channel Leakage Current (Note 6, 7)	I _R		1	100	nA	V _R = 3V
Reverse breakdown voltage	V _{BR}	6.0		9.0	V	I _R = 1mA, from pin 5 to pin 2
Forward Voltage	V _F		0.8		V	I _F = 8mA
Dynamic Resistance	R _{DYN}		0.9		Ω	I _{PP} = 1A, t _p = 8/20μs
I/O to GND Capacitance	C _(I/O-GND)		1.0	1.5	pF	V _(I/O-GND) = 0V, f = 1MHz
I/O to I/O Capacitance	C _(I/O-I/O)		0.6		pF	V _(I/O-I/O) = 0V, f = 1MHz

Notes:

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

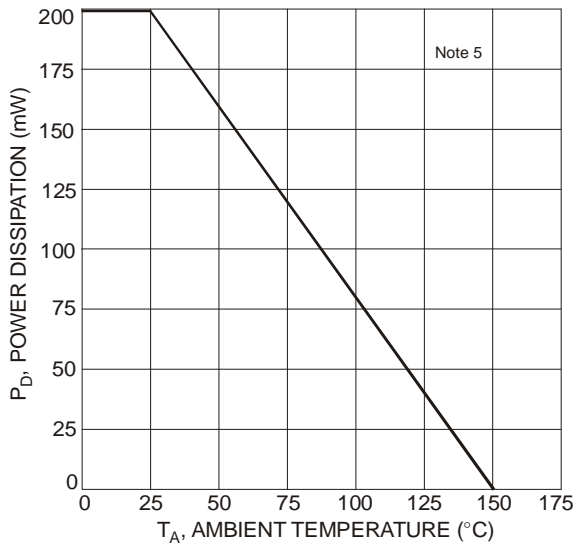


Figure 1 Power Derating Curve

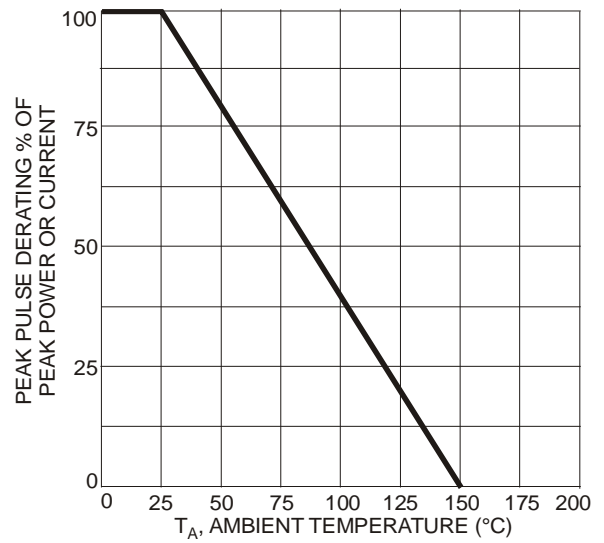
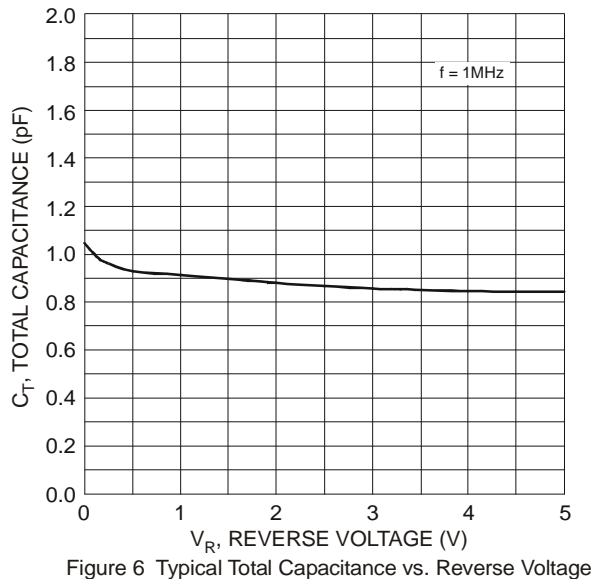
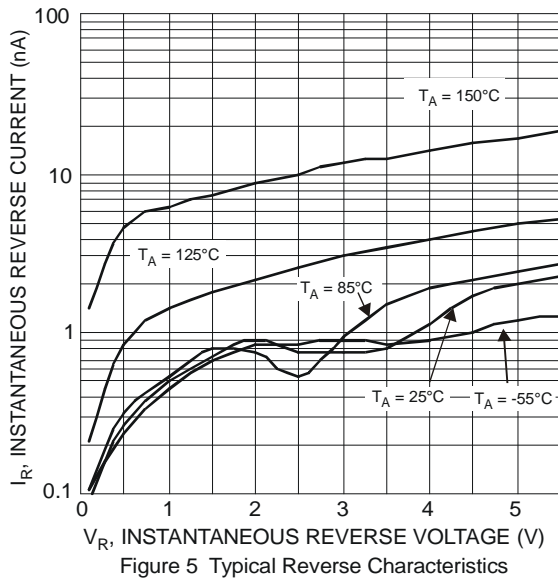
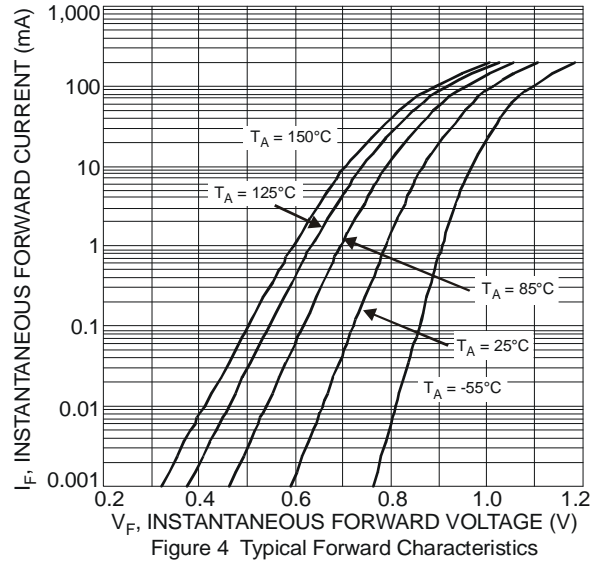
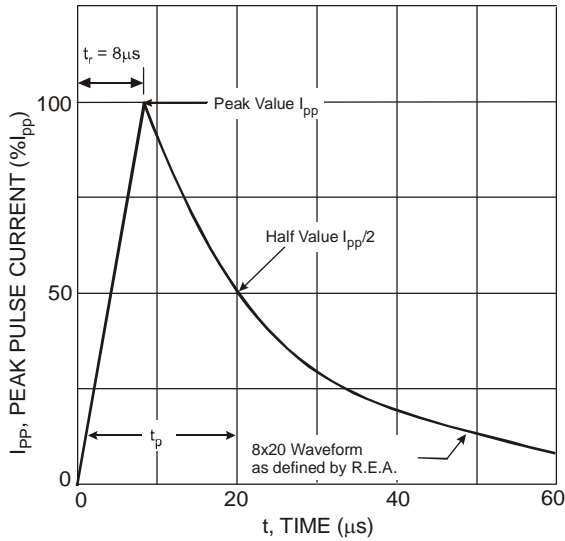
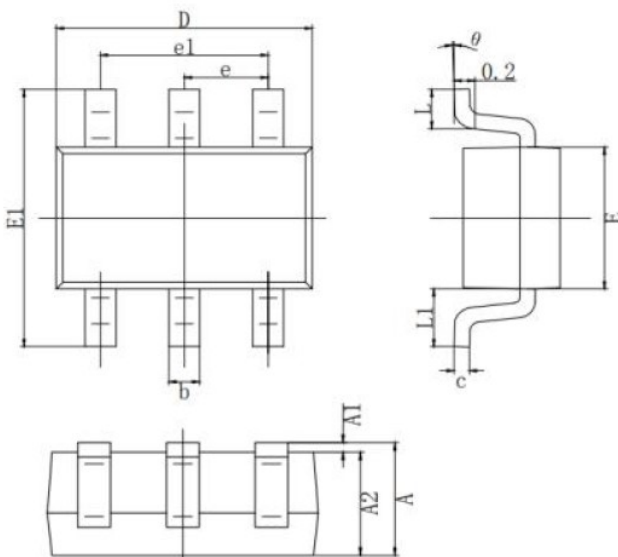


Figure 2 Pulse Derating Curve



SOT-363 PACKAGE OUTLINE DIMENSIONS



SYMBOL	MILLIMETER	
	MIN	MAX
A	0.900	1.100
A1	0.000	0.100
A2	0.900	1.000
b	0.150	0.350
c	0.080	0.150
D	2.000	2.200
E	1.150	1.350
E1	2.150	2.450
e	0.650 TYP.	
e1	1.200	1.400
L	0.525 REF.	
L1	0.260	0.460
theta	0°	8°

Marking

Ordering information

Order code	Package	Base qty	Delivery mode
UMW DRTR5V0U4S-7	SOT-363	3000	Tape and reel

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[P6KE13CA](#) [P6KE43CA](#) [P6KE6.8CA](#) [P6KE8.2](#) [P6SMBJ20CA](#) [JANTX1N6072A](#) [SR2835ESKG](#) [SA90CA](#)