

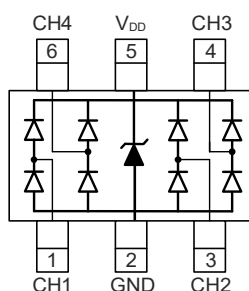
1.Description

- Ultra low capacitance: 0.3pF typical (I/O-IO)
- Ultra low leakage: nA level
- Low operating voltage: 5V
- Low clamping voltage
- IEC 61000-4-2 (ESD) immunity test
- Air discharge : $\pm 20\text{kV}$
- Contact discharge : $\pm 15\text{kV}$
- IEC61000-4-5 (Lightning) 5A (8/20 μs)

2.Applications

- Monitors and flat panel displays
- Set-top box and Digital TV
- Video graphics cards
- Digital Video Interface (DVI)

3.Pinning information



SOT-363

4.Absolute Maximum Rating

Parameter	Symbol	Value	Units
Peak Pulse Power (8/20 μs)	P_{PK}	70	W
Peak Pulse Current (8/20 μs)	I_{PP}	5	A
ESD per IEC 61000-4-2 (Air)	V_{ESD}	± 20	kV
ESD per IEC 61000-4-2 (Contact)		± 15	kV
Junction Temperature Range	T_J	-55 to 125	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55 to 150	$^{\circ}\text{C}$

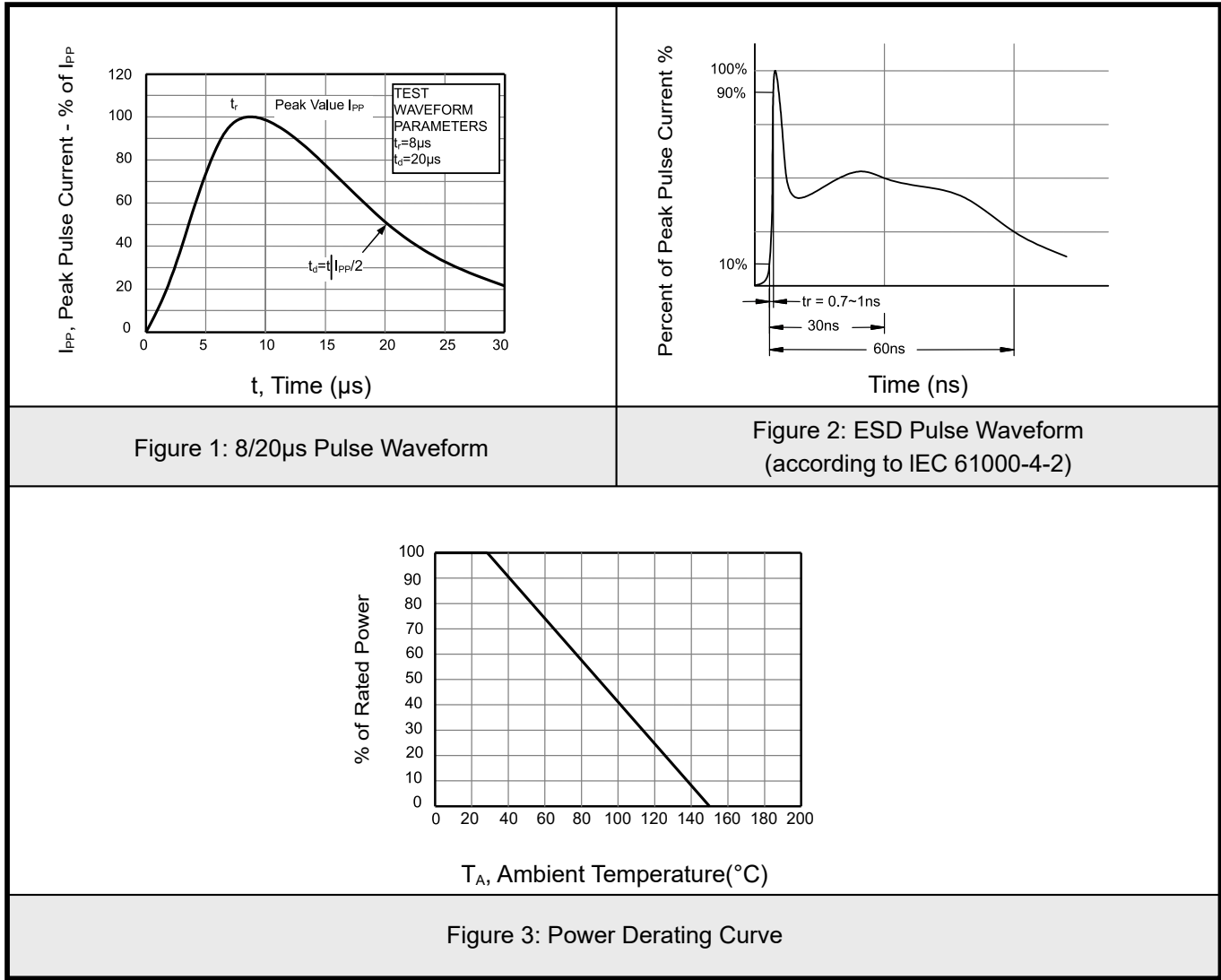


5. Electrical Characteristics

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Reverse Working Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	$I_T=1mA$	6	7.5	9	V
Reverse Leakage Current	I_R	$V_{RWM}=5V$			0.08	μA
Clamping Voltage	V_C	$I_{PP}=1A(8x\ 20\mu s\ pulse)$			10	V
		$I_{PP}=5A(8x\ 20\mu s\ pulse)$			14	V
Parasitic Capacitance	C_J	$V_R=0V, f=1MHz, IO\ to\ GND$		0.6	0.8	pF
		$V_R=0V, f=1MHz, IO\ to\ IO$		0.3		pF

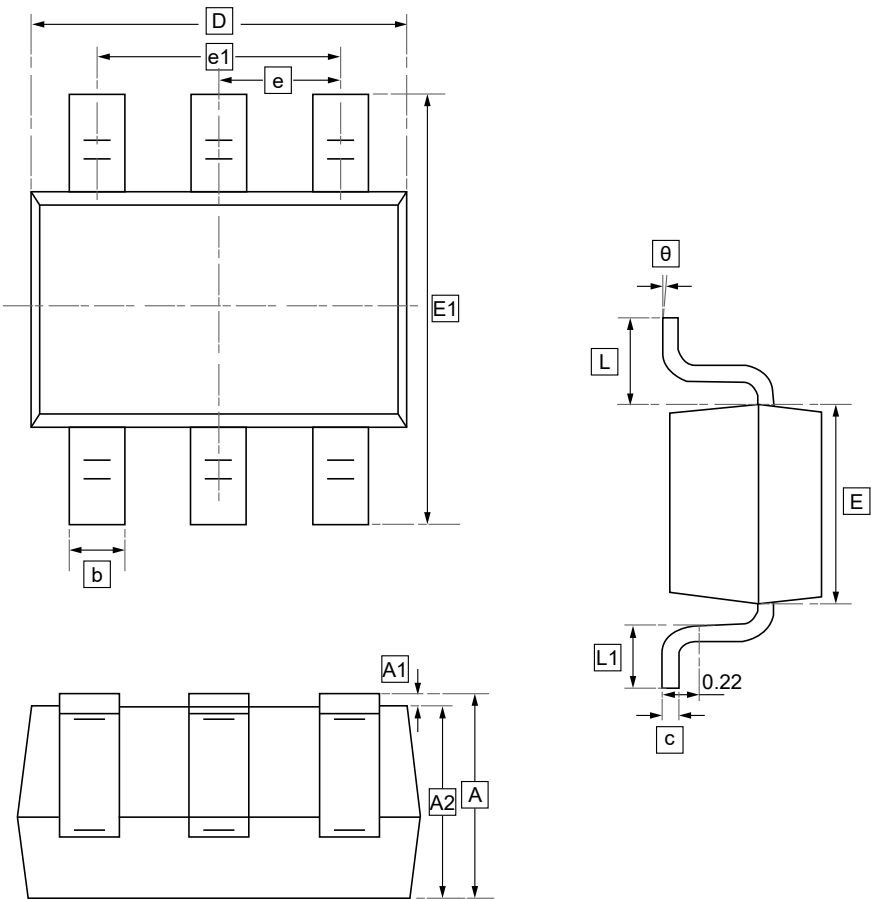


6. Typical characteristic





9.SOT-363 Package Outline Dimensions



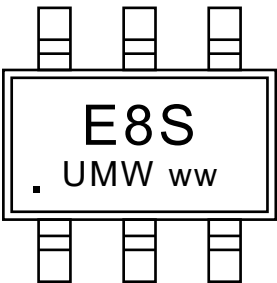
DIMENSIONS (mm are the original dimensions)

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



ww: Batch Code

Order Code	Package	Base QTY	Delivery Mode
UMW ESD5V3U4RRS	SOT-363	3000	Tape and reel



9.Disclaimer

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