

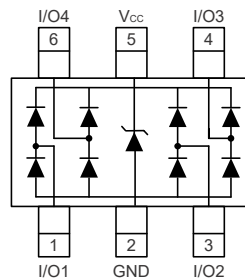
## 1.Features

- 60Wattspeakpulsepower( $t_p = 8/20\mu s$ )
- Low clampingvoltage
- Low leakagecurrent
- Low capacitance( $C_j=0.3pF$ typ. IO to IO)
- Protectionondata/powerline to:
- IEC 61000-4-2 $\pm 12kV$  contact $\pm 15kV$  air
- IEC 61000-4-4(EFT) 40A(5/50ns)
- IEC 61000-4-5(Lightning)3.5A (8/20 $\mu s$ )

## 2.Applications

- Ethernet
- Digital Visual Interface (DVI)
- USB 2.0
- Notebook and PC Computers

## 3.Pinning information



**SOT23-6**

## 4.Absolute Maximum Ratings $T_A = 25^\circ C$

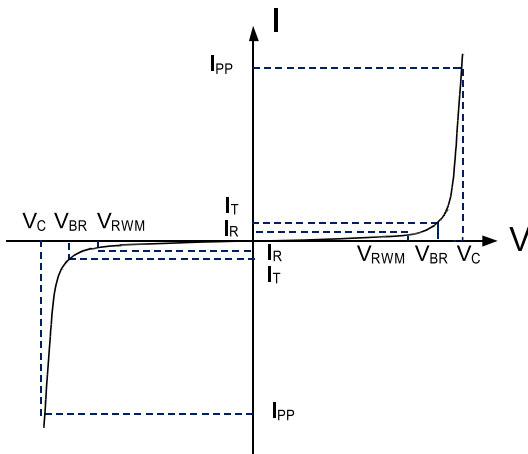
Parameter	Symbol	Maximum	Units
Peak Pulse Power ( $t_p=8/20\mu s$ )	$P_{pp}$	60	Watts
Peak Pulse Current ( $t_p=8/20\mu s$ )(note1)	$I_{pp}$	3.5	A
ESD per IEC 61000-4-2(Air)	$V_{ESD}$	15	kV
ESD per IEC 61000-4-2(Contact)		12	kV
Lead Soldering Temperature	$T_L$	260(10seconds)	$^\circ C$
Junction Temperature	$T_J$	-55 to 125	$^\circ C$
Storage Temperature	$T_{STG}$	-55 to 125	$^\circ C$



## 5. Electrical Characteristic (T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Reverse Stand-Off Voltage	V <sub>RWM</sub>				5	V
Reverse Breakdown Voltage	V <sub>BR</sub>	I <sub>T</sub> =1mA	6	7.8	8.5	V
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> =5V, T=25°C		50	500	nA
Peak Pulse Current	I <sub>PP</sub>	tp=8/20μs			3.5	A
Clamping Voltage	V <sub>C</sub>	I <sub>PP</sub> =3.5A, tp=8/20μs		10	13	V
Junction capacitance	C <sub>J</sub>	V <sub>R</sub> =0V, f=1MHz, IO to IO		0.2	0.25	pF
		V <sub>R</sub> =0V, f=1MHz, IO to GND		0.36	0.5	pF

## 6. Electrical Parameters (T<sub>A</sub>=25°C unless otherwise noted)

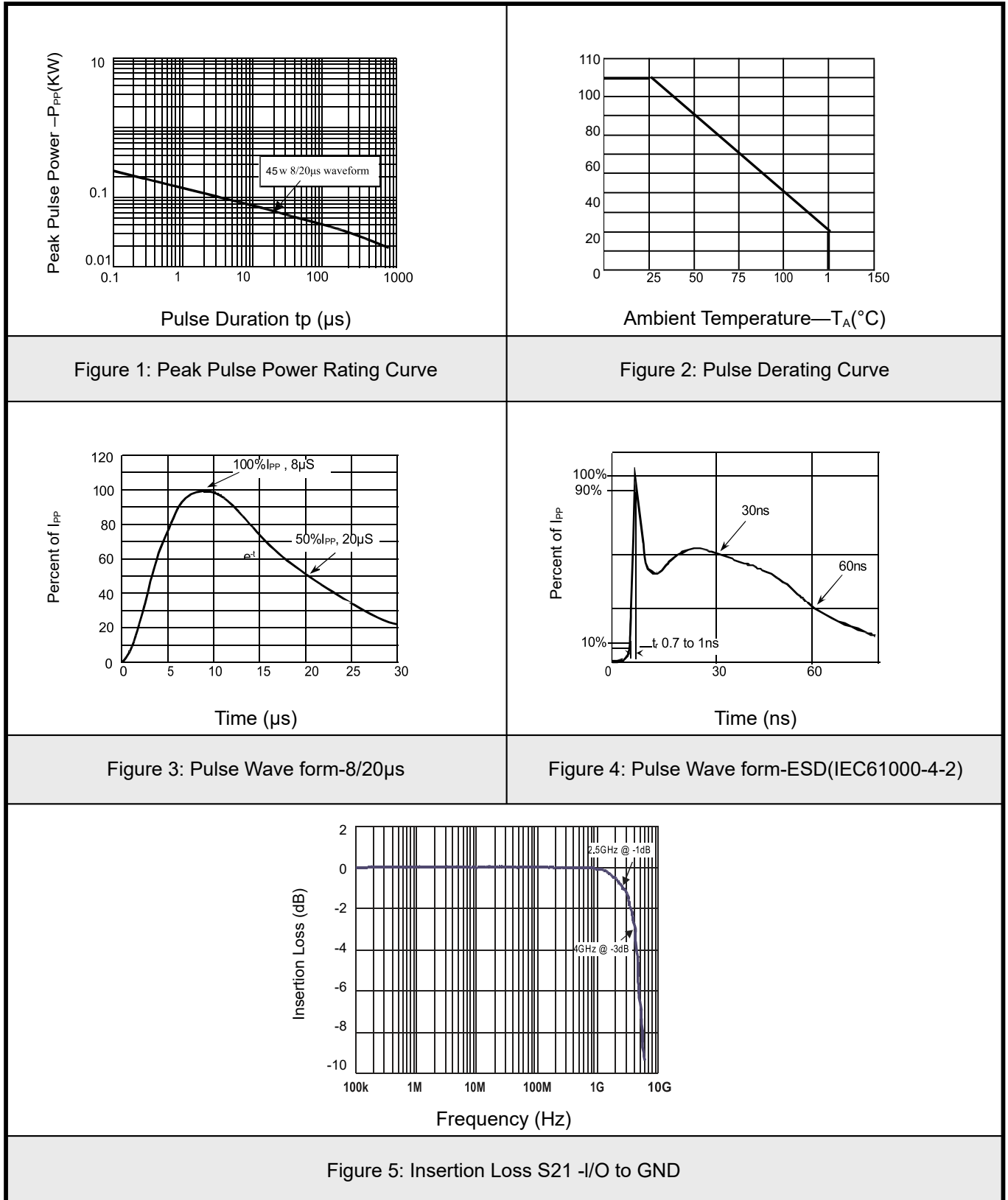


Notes: 8/20μs pulse waveform.

Symbol	Parameter
I <sub>PP</sub>	Maximum Reverse Peak Pulse Current
V <sub>C</sub>	Clamping Voltage @ I <sub>PP</sub>
V <sub>RWM</sub>	Working Peak Reverse Voltage
I <sub>R</sub>	Maximum Reverse Leakage Current @ V <sub>RWM</sub>
V <sub>BR</sub>	Breakdown Voltage @ I <sub>T</sub>
I <sub>T</sub>	Test Current

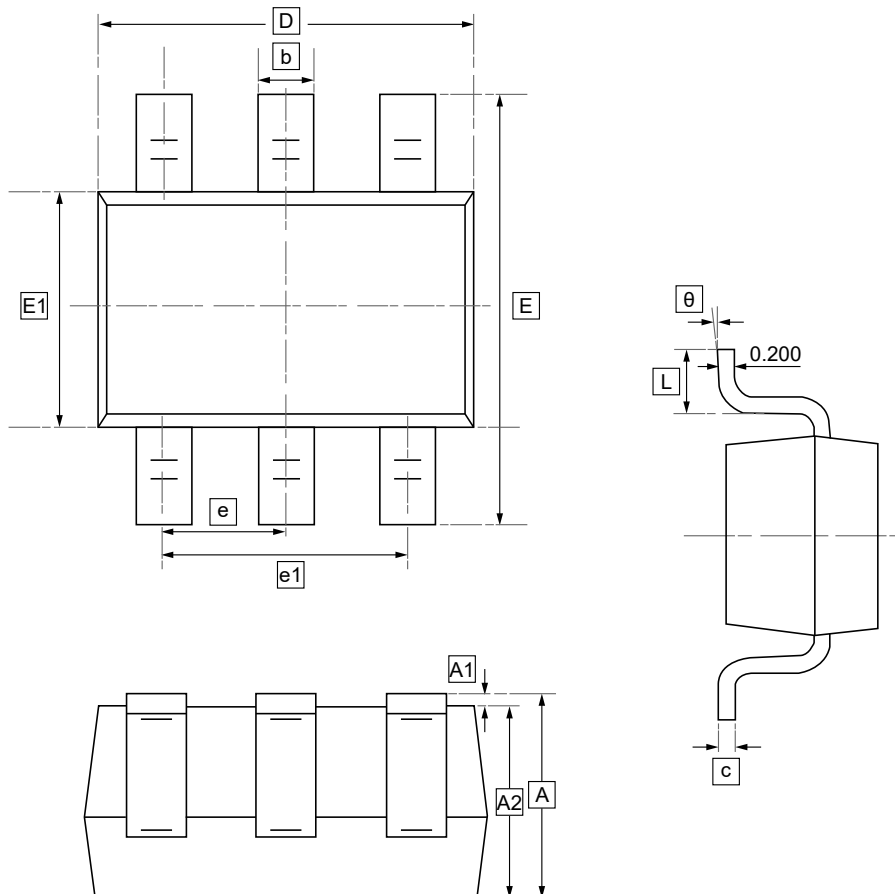


## 7. Typical characteristic





## 8.SOT-23-6 Package Outline Dimensions

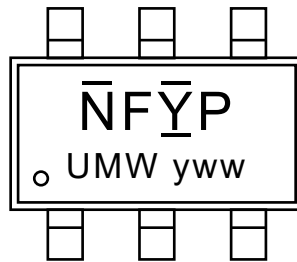


### DIMENSIONS (mm are the original dimensions)

Symbol	A	A1	A2	b	c	D	E1	E	e	e1	L	$\theta$
Min	1.050	0.000	1.050	0.300	0.100	2.820	1.500	2.650	0.950	1.800	0.300	0°
Max	1.250	0.100	1.150	0.500	0.200	3.020	1.700	2.950	BSC	2.000	0.600	8°



## 9. Ordering information



yww: Batch Code

Order Code	Package	Base QTY	Delivery Mode
UMW TPD4E001DBVR	SOT23-6	3000	Tape and reel



## 10.Disclaimer

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