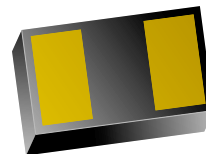


Protection in Portable Electronics Applications.

FEATURES

- Transient protection for data lines to
 - IEC61000-4-2(ESD) : Air mode $\pm 25\text{kV}$ / Contact mode $\pm 20\text{kV}$
 - IEC61000-4-5(Surge) : $7\text{A}(t_p=8/20\ \mu\text{s})$
- Low capacitance $C_T = 9\text{pF}(\text{Max})$
- Bi-directional, symmetrical working voltage up to : $V_{\text{RWM}} = \pm 3.3\text{V}$
- Extremely small Size $0.6 \times 0.3 \times 0.25\text{mm}$
- Low reverse current : 10nA typical ($V_{\text{RWM}}=3.3\text{V}$)



ELP-2B (leadless-type)

PRODUCT DESCRIPTION

- Molding compound flammability rating : UL 94V-0
- Pb-Free, Halogen-Free, RoHs Compliant

Package dimensions (ELP-2B)	Pin configurations (Bi-directional)																
<table border="1"> <thead> <tr> <th>DIM</th><th>MILLIMETERS</th></tr> </thead> <tbody> <tr> <td>A</td><td>0.6 ± 0.035</td></tr> <tr> <td>B</td><td>0.3 ± 0.035</td></tr> <tr> <td>C</td><td>0.25 ± 0.015</td></tr> <tr> <td>C1</td><td>$0.02 \pm 0.005/-0.02$</td></tr> <tr> <td>D</td><td>0.22 ± 0.02</td></tr> <tr> <td>E</td><td>0.16 ± 0.02</td></tr> <tr> <td>F</td><td>Typ 0.335</td></tr> </tbody> </table>	DIM	MILLIMETERS	A	0.6 ± 0.035	B	0.3 ± 0.035	C	0.25 ± 0.015	C1	$0.02 \pm 0.005/-0.02$	D	0.22 ± 0.02	E	0.16 ± 0.02	F	Typ 0.335	1. ANODE 2. ANODE
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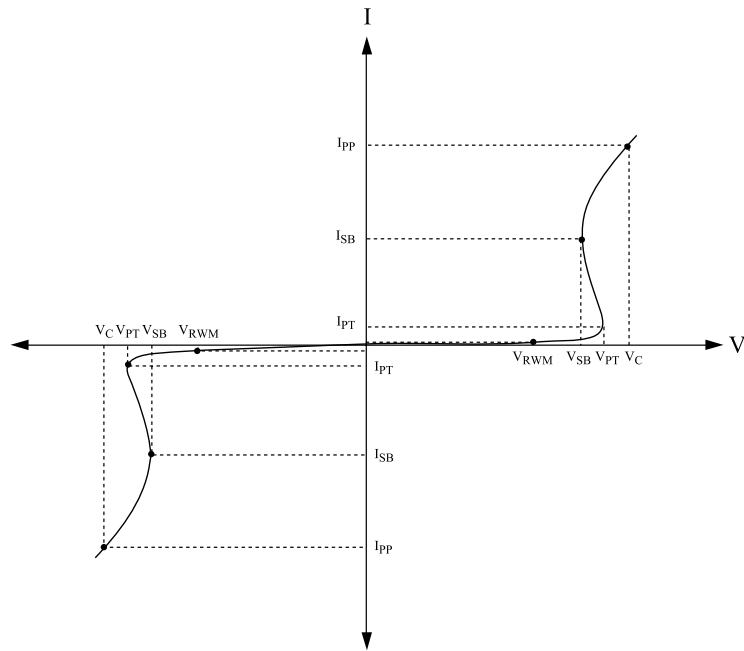
ORDERING INFORMATION

Part Number	Qty per Reel	Reel Size	Marking code
PS03CBEL2B-RTK	5,000	7 inch	M
PS03CBEL2B-RTL	10,000		
PS03CBEL2B-RTH	5,000		
PS03CBEL2B-RTR	10,000		

PS03CBEL2B

MAXIMUM RATING (Ta=25)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Peak Pulse Power (tp=8/20 μs)	P _{PK}	70	W
Peak Pulse Current (tp=8/20 μs)	I _{PP}	7	A
Junction Temperature	T _J	150	
Storage Temperature	T _{stg}	-55 150	

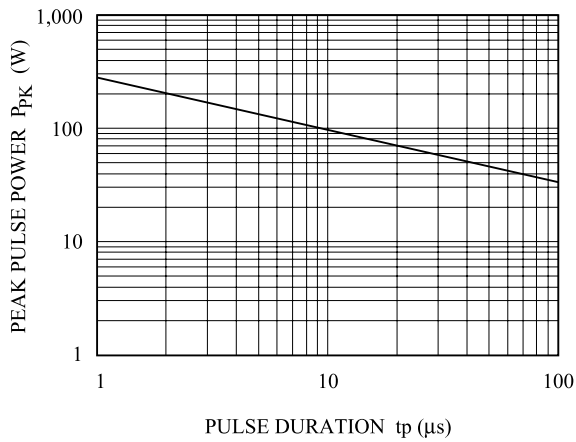


ELECTRICAL CHARACTERISTICS (Ta=25)

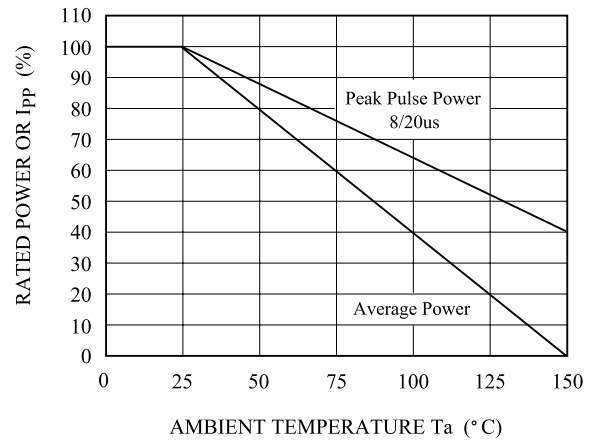
CHARACTERISTIC	SYMBOL	TEST CONDITION		MIN.	TYP.	MAX.	UNIT
Reverse Stand-Off Voltage	V _{RWM}	-		-	-	3.3	V
Reverse Leakage Current	I _R	V _{RWM} =3.3V		-	10	50	nA
Snap-back Voltage	V _{SB}	I _{SB} =100 μA, I _{SB} =50mA		3.4	-	-	V
Punch-through Voltage	V _{PT}	I _{PT} =2 μA		3.65	4	4.4	V
Total Capacitance	C _T	V _R =0V, f=1MHz		-	6	9	pF
Clamping Voltage	V _C	I _{PP} =1A, tp=8/20 μs		-	-	5.5	V
		I _{PP} =4A, tp=8/20 μs		-	-	7.5	
		I _{PP} =7A, tp=8/20 μs		-	-	10	
Electrostatic Discharge	V _{ESD}	IEC61000-4-2	Air	± 25	-	-	kV
			Contact	± 20			

PS03CBEL2B

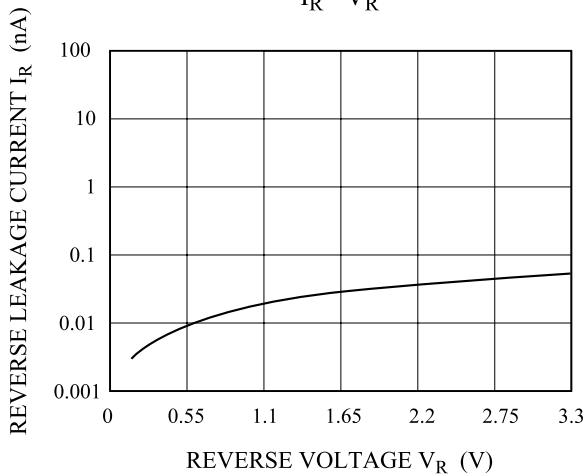
NON-REPETITIVE PEAK PULSE
POWER VS. PULSE TIME



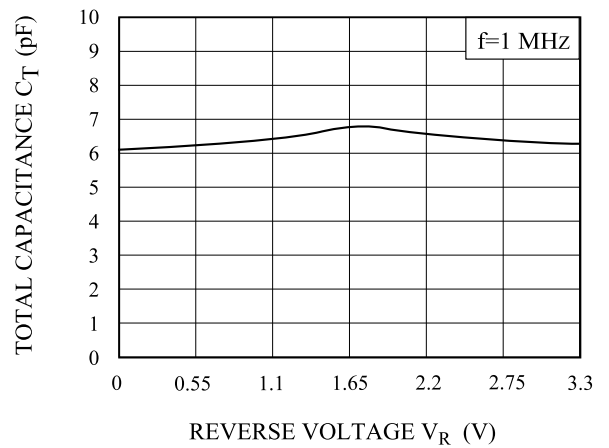
POWER DERATION CURVE



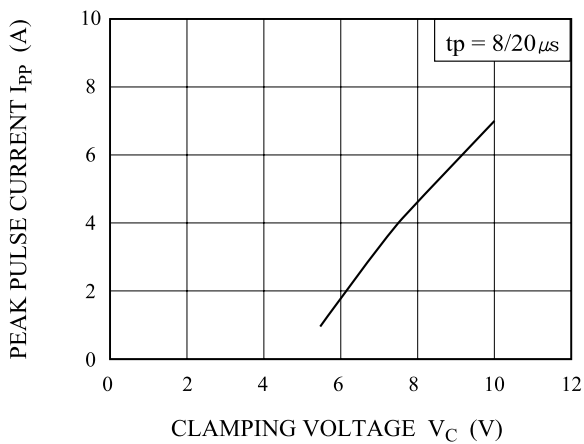
$I_R - V_R$



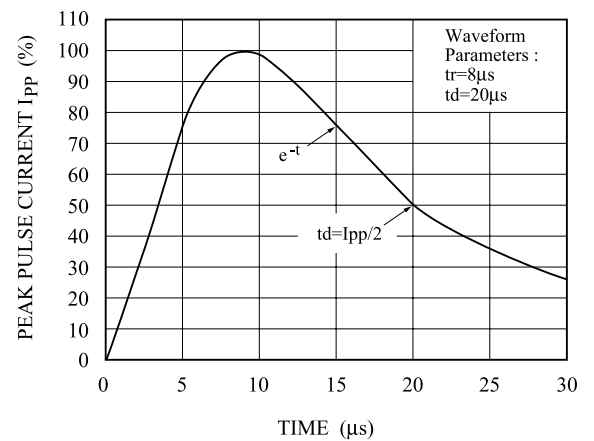
$C_T - V_R$



$I_{PP} - V_C$



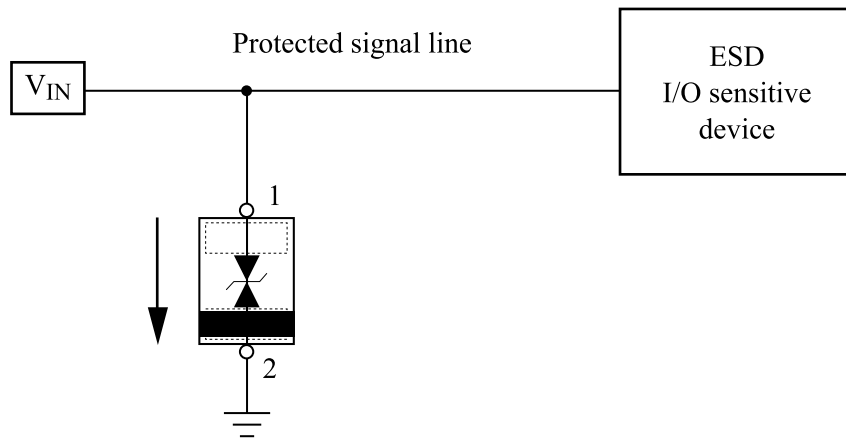
PULSE WAVEFORM



PS03CBEL2B

APPLICATIONS

- USB 2.0, 10/100/1000 Ethernet, DVI, HDMI, S-ATA
- MDDI Port
- LCD-Display, Camera
- GPS / FM Antennas
- LVDS
- High speed data lines



Recommended pad dimension & Marking Information

Recommended pad dimension	Marking Code