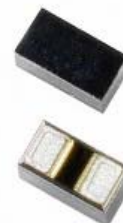




Features

- Ultra low leakage: nA level
- Operating voltage: 8V
- Low clamping voltage
- Complies with following standards:
 - IEC 61000-4-2 (ESD) immunity test
 - Air discharge: $\pm 18\text{kV}$
 - Contact discharge: $\pm 15\text{kV}$
 - IEC61000-4-4 (EFT) 40A (5/50ns)
 - IEC61000-4-5 (Lightning) 40A (5/50 μs)
- RoHS Compliant

Dimensions 0201



Pin Configuration



Applications

- USB 2.0 power and data line
- Set-top box and digital TV
- Digital video interface (DVI)
- Notebook Computers
- SIM Ports
- 10/100 Ethernet

Mechanical Characteristics

- Package: 0201
- Lead Finish: Lead Free
- UL Flammability Classification Rating 94V-0
- Quantity Per Reel: 15,000pcs
- Reel Size: 7 inch

Absolute Maximum Ratings (T_{amb}=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20 μs)	P _{pp}	100	W
ESD per IEC 61000-4-2 (Air)	V _{ESD}	± 18	Kv
ESD per IEC 61000-4-2 (Contact)		± 15	
Operating Temperature Range	T _J	-55 to +125	°C
Storage Temperature Range	T _{STJ}	-55 to +150	°C

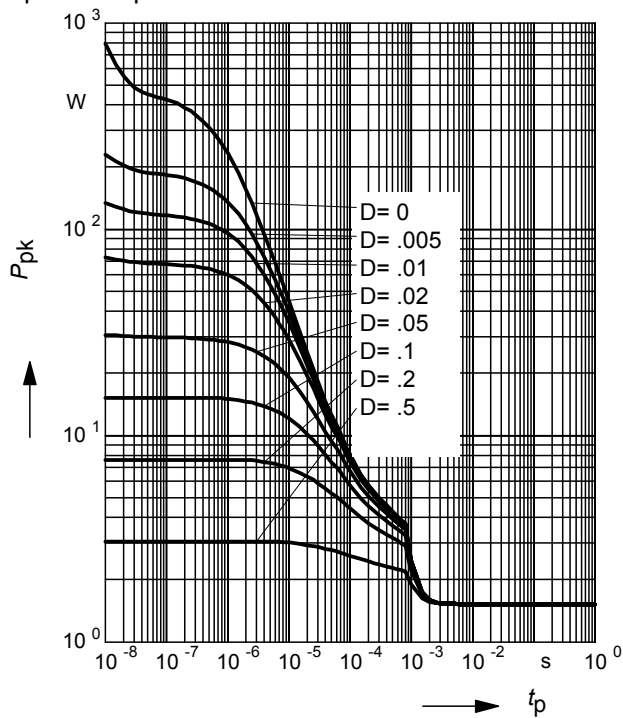
Electrical Characteristics (TA=25°C unless otherwise specified)

Part Number	Device Marking	V _{RWM} (V)	V _{BR} (V)	I _T (mA)	V _C @1A	V _C		I _R μA (Max)	C (Pf) (Typ.)
						(Max)	(@A)		
PESD11B8V0	E	8	17	1	9.3	23	1	0.5	4

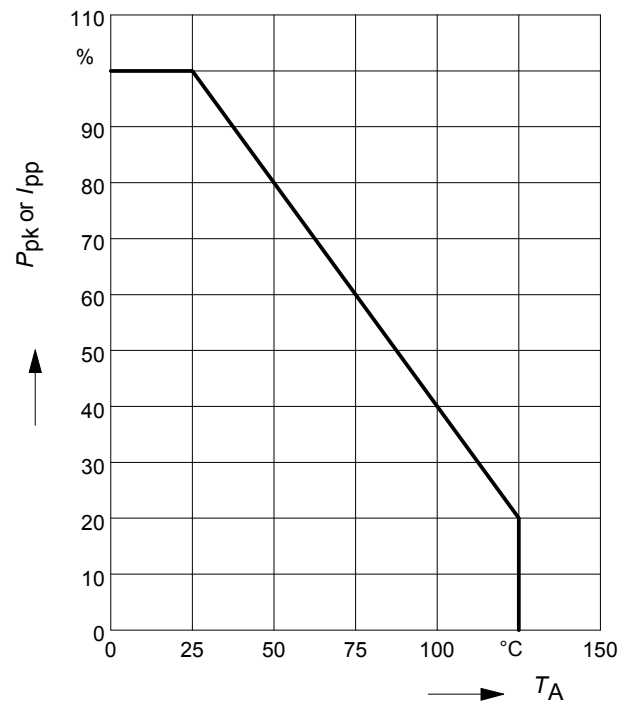
Characteristic Curves

Non-repetitive peak pulse power

$$P_{pk} = f(t_p)$$



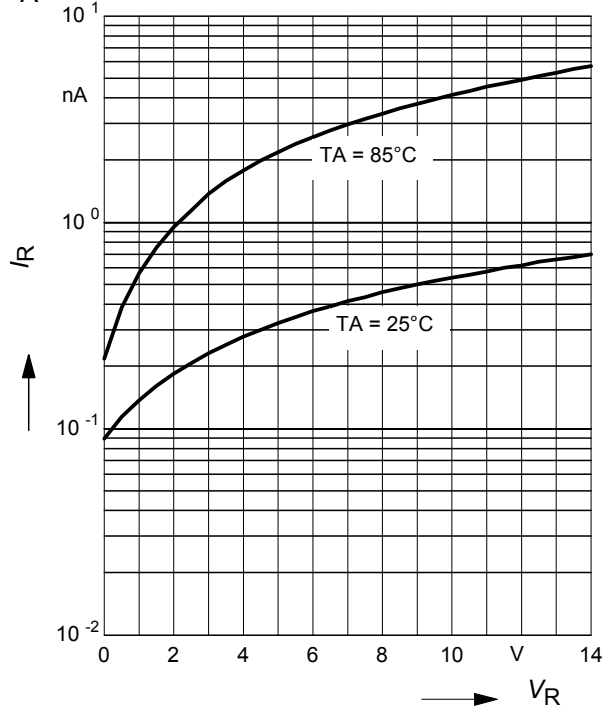
Power derating curve $P_{pk} = f(T_A)$



Characteristic Curves

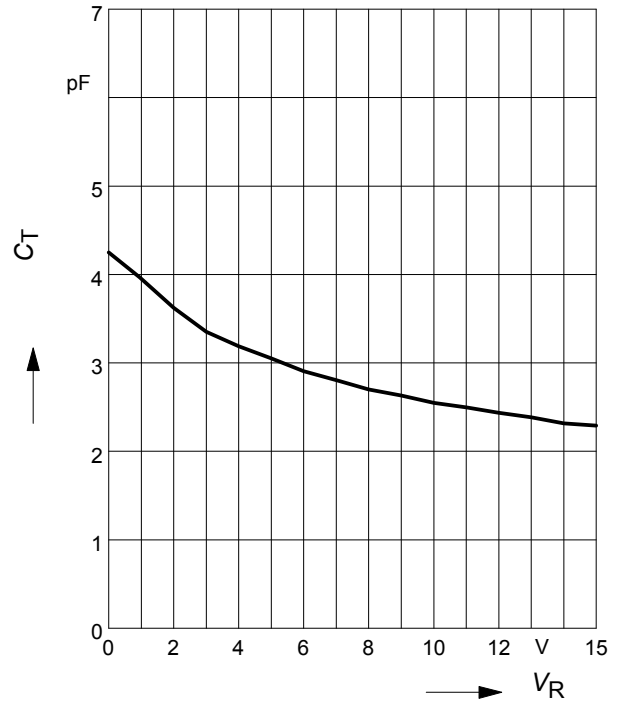
Reverse current $I_R = f(V_R)$

$T_A =$ Parameter



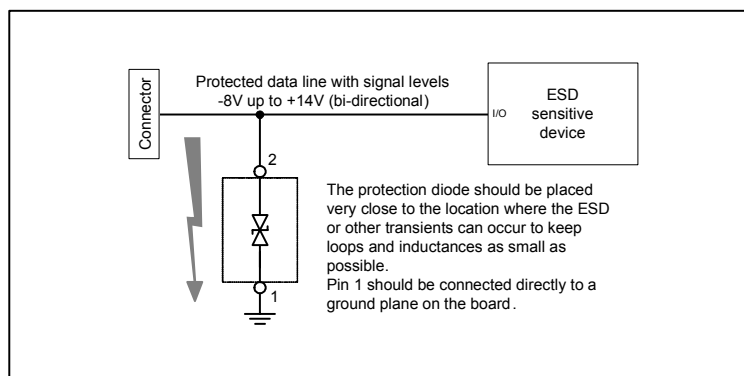
Diode capacitance $C_T = f(V_R)$

$f = 1\text{MHz}$

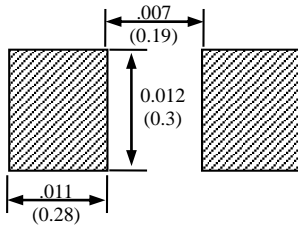
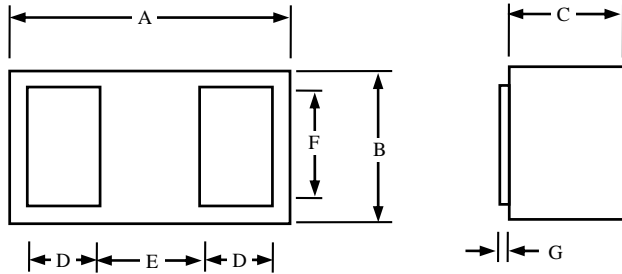


Application example

1 line, bi-directional



Dimensions



Unit: inch (mm)

Dimension	Inches		Millimeters	
	MIN	MAX	MIN	MAX
A	0.023	0.025	0.595	0.645
B	0.011	0.013	0.295	0.345
C	0.009	0.12	0.245	0.301
D	0.005	0.006	0.145	0.155
E	0.009	0.010	0.245	0.255
F	0.009	0.010	0.245	0.255
G	0.0002	0.0006	0.005	0.015

Standard Packing

Reel \varnothing 180 mm = 15.000 Pieces/Reel

Reel \varnothing 330 mm = 50.000 Pieces/Reel (optional)

