















ESD

TVS

MOS

LDO

Diode

Sensor

DC-DC

Product Specification

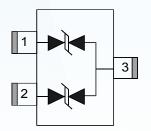
Domestic Part Number	PESD15VL2BT
Overseas Part Number	PESD15VL2BT
▶ Equivalent Part Number	PESD15VL2BT





Features

- 400 W peak pulse power (tp=8/20µs)
- Bidirectional and unidirectional configurations
- Solid-state silicon-avalanche technology
- Low clampingvoltage
- Low leakage current
- Protection two datalines
- IEC 61000-4-2±30kV contact ±30kV air
- IEC 61000-4-4 (EFT) 40A (5/50ns)
- IEC 61000-4-5 (Lightning) 11A(8/20µs)



Applications

- Dataline
- Automatic Teller Machines
- Net works
- Power line

Mechanical Data

- SOT-23 package
- Molding compound flammability rating: UL 94V-0
- Packaging: Tape and Reel
- RoHS/WEEE Compliant

Absolute Maximum Rating

Rating	Symbol	Value	Units
Peak Pulse Power (t _p =8/20μs)	Ppp	400	W
Peak Pulse Current (t _p =8/20µs)(note1)	I _{pp}	11	А
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	V _{ESD}	30 30	kV
Lead Soldering Temperature	TL	260/10S	$^{\circ}$
Junction Temperature	TJ	-55 to + 125	$^{\circ}$
Storage Temperature	T _{stg}	-55 to + 125	$^{\circ}$ C

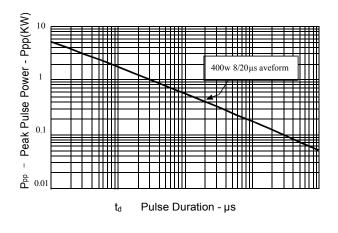


Electrical Characteristics

Parameter	Symbol	Conditions	Min	Typical	Max	Units
Reverse Stand-Off Voltage	V _{RWM}				15	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	16.7	18.5	20.0	V
Reverse Leakage Current	I _R	V _{RWM=15V,T=25} °C		0.1	0.5	μA
Peak Pulse Current	I _{PP}	tp=8 /20µs			11	А
Clamping Voltage	Vc	I _{PP} =11A,t _p =8/20μs		35	43	V
Junction Capacitance	Cj	$V_R = 0V$, $f = 1MHz$ (Pin1 \cdot Pin2 to Pin3)		20	25	pF

TypicalCharacteristics

Figure 1: Peak Pulse Power vs. Pulse Time



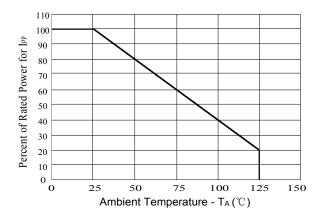


Figure 2: Power Derating Curve

Figure3: Pulse Waveform

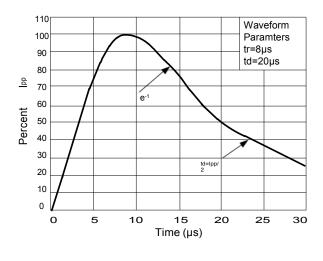
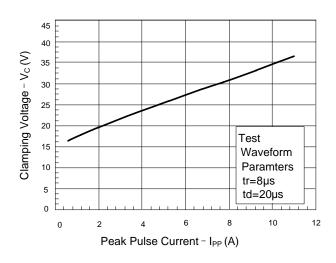
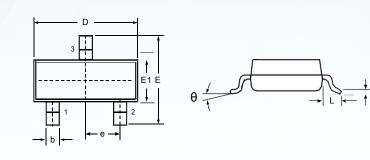


Figure 4: Clamping Voltage vs.lpp



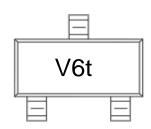


Outline Drawing - SOT-23



	DIMENSIONS				
SYMBOL	MILLIMETER		INCHES		
OTMIDGE	MIN	MAX	MIN	MAX	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
D	2.800	3.000	0.110	0.118	
b	0.300	0.500	0.012	0.020	
Е	2.250	2.550	0.089	0.100	
E1	1.200	1.400	0.047	0.055	
е	0.950 BSC		0.037 BSC		
L	0.300	0.500	0.012	0.020	
θ	0	8°	0	8°	

Marking



Ordering information

Order code	Package	Baseqty	Deliverymode
PESD15VL2BT	SOT-23	3000	Tape and reel



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