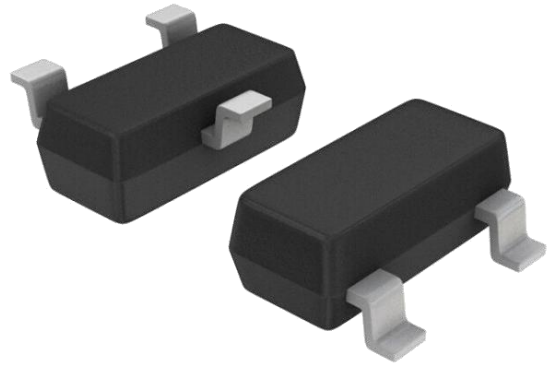


■ Features

- 45Watts peak pulse power($t_p=8/20\mu s$)
- Uni-directional configurations
- Solid-state silicon-avalanche technology
- Low leakage current
- Low clamping voltage
- Transient protection for each line according to IEC61000-4-2 (ESD): $\pm 20kV$ (contact discharge)
 $\pm 25kV$ (air discharge)
- IEC61000-4-4(EFT) 40A (5/50ns)
- IEC 61000-4-5 (Lightning)4A (8/20 μs)



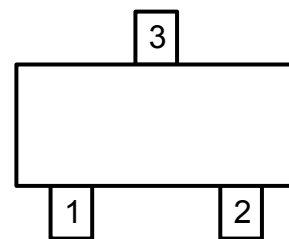
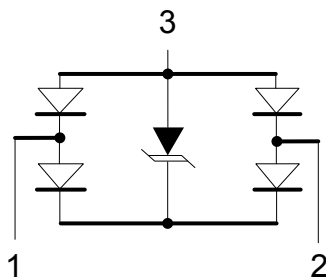
■ Applications

- Handsets and Accessories
- Personal Digital Assestants(PDA's)
- Portable Instrumentation
- Notebooks, Desktops, and Servers
- Pagers Peripherals

■ Mechanical Data

- SOT323 package
- Molding compound flammability rating: UL 94V-0
- Packaging: Tape and Reel
- RoHS/WEEE Compliant

■ Schematic & PIN Configuration



SOT323 (Top View)

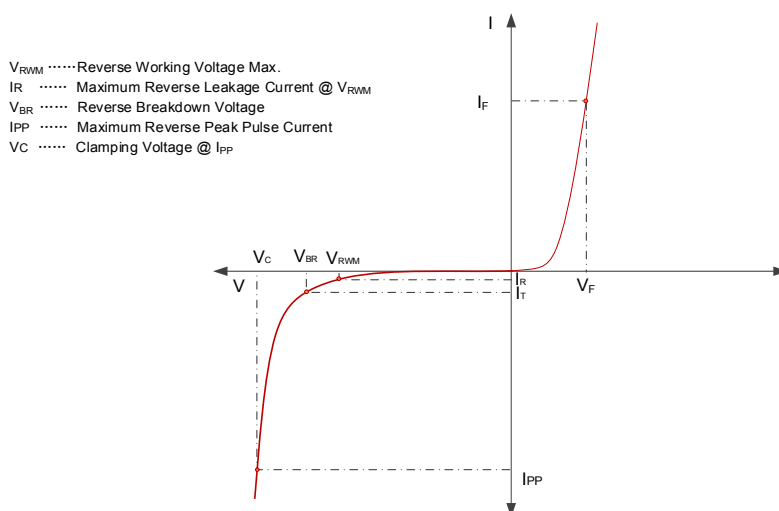
Absolute Maximum Rating

Rating	Symbol	Value	Units
Peak Pulse Power ($t_p = 8/20\mu s$)	P_{PP}	45	Watts
Peak Pulse Current ($t_p = 8/20\mu s$) (Note1)	I_{pp}	4	A
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	V_{ESD}	20 25	kV
Lead Soldering Temperature	T_L	260(10seconds)	°C
Junction Temperature Range	T_J	-55 to + 125	°C
Storage Temperature Range	T_{stg}	-55 to + 125	°C

Electrical Characteristics

Parameter	Symbol	Conditions	Min	Typical	Max	Units
Reverse Stand-Off Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	$I_T = 1mA$	6			
Reverse Leakage Current	I_R	$V_{RWM} = 5V, T = 25^\circ C$			0.5	μA
Clamping Voltage	V_C	$I_{PP} = 4A, t_p = 8/20\mu s$		11		V
Junction Capacitance	C_j	$V_R = 0V, f = 1MHz$		0.5		pF

Electrical Parameters (TA = 25°C unless otherwise noted)



Note1: 8/20 μs pulse waveform.

■ Typical Characteristics

Figure 1: Peak Pulse Power vs. Pulse Time

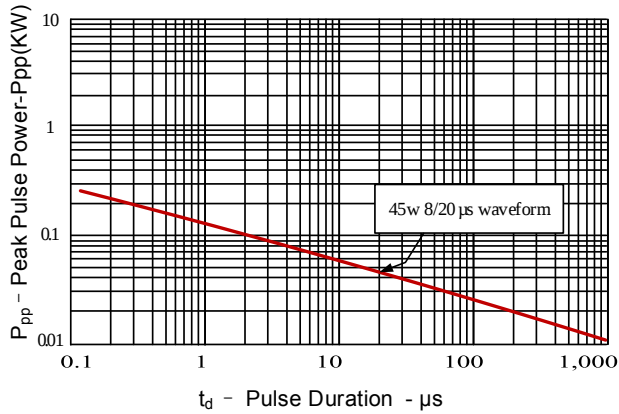


Figure 2: Power Derating Curve

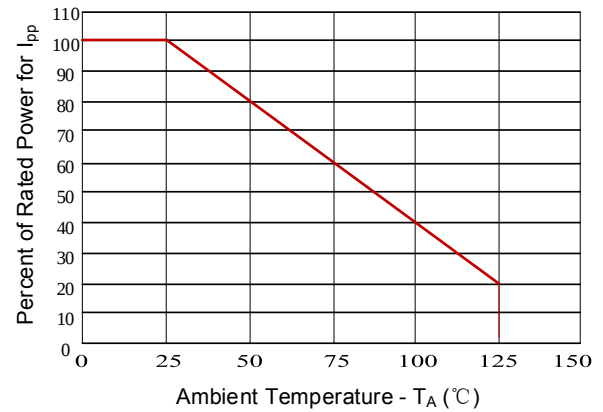


Figure3: Pulse Waveform

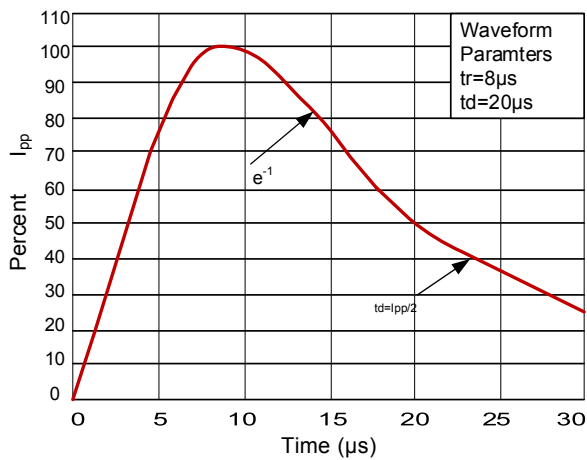
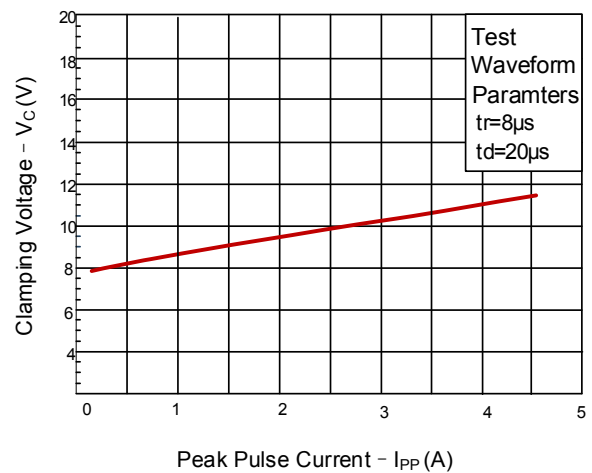
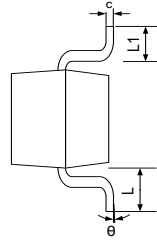
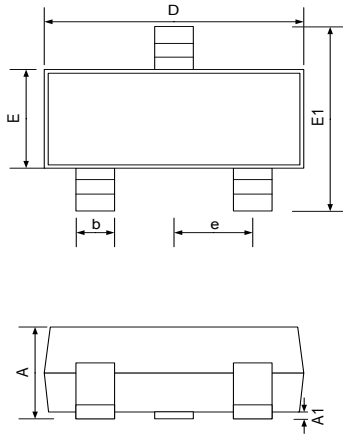


Figure 4: Clamping Voltage vs. Ipp



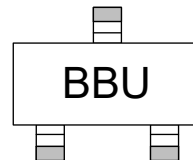
■ Outline Drawing-SOT323



COMMON DIMENSION (mm)			
PKG	SOT323		
REF.	MIN.	NOM.	MAX.
A	0.80	1.00	1.10
A1	0.00	0.05	0.10
b	0.20	0.30	0.40
c	0.08	0.12	0.15
D	2.00	2.10	2.20
E	1.15	1.25	1.35
E1	2.15	2.30	2.45
e		0.650TPY	
L		0.525REF	
L1	0.26	0.36	0.46
θ	0°	4°	8°

Notes: This PCB Layout Is For Reference Purposes Only.

■ Marking



■ Ordering Information

Part number	Type	Reel size	MOQ
RLST323A052LV	T/R	7 inch	3k/reel