

Features

- Uni-directional ESD protection of four lines
- 65Watts peak pulse power ($t_p = 8/20\mu s$)
- Working voltage: 5V
- Junction Capacitance: 28pF(Typ)
- Low clamping voltage
- Low leakage current
- IEC 61000-4-2 $\pm 30kV$ contact $\pm 30kV$ air
- IEC 61000-4-4 (EFT) 40A (5/50ns)
- IEC 61000-4-5 (Lightning) 5.5A (8/20 μs)

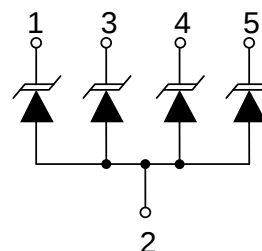
Applications

- Handsets and Accessories
- Personal Digital Assistants (PDA's)
- Notebooks, Desktops, and Servers
- Portable Instrumentation
- Digital Cameras
- Touch Panels
- Peripherals

Mechanical Data

- Package:SOT-553
- Molding compound flammability rating: UL 94V-0
- RoHS/WEEE Compliant

Schematic & PIN Configuration



Ordering Information

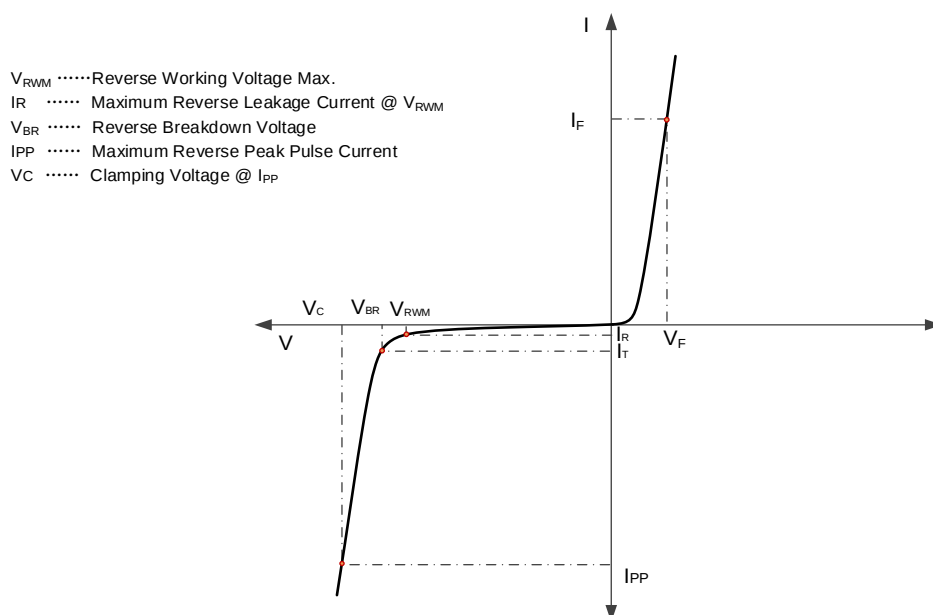
Part Number	Package	Marking	Packing	Reel Size
NZQA6V2XV5T1G-CN	SOT-553		3000 Tape & Reel	7 inches

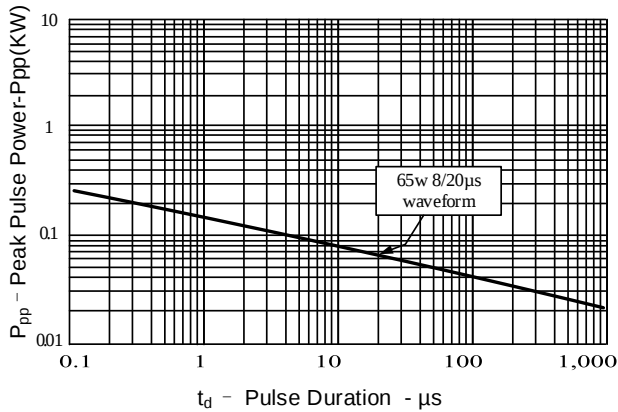
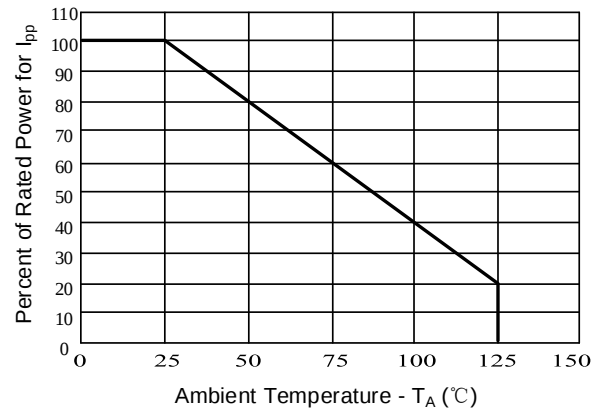
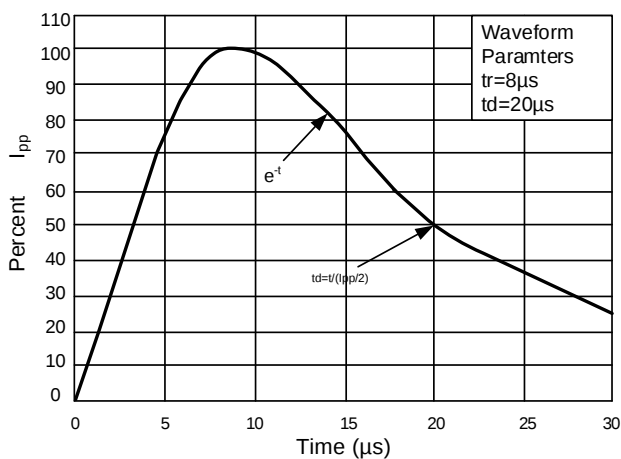
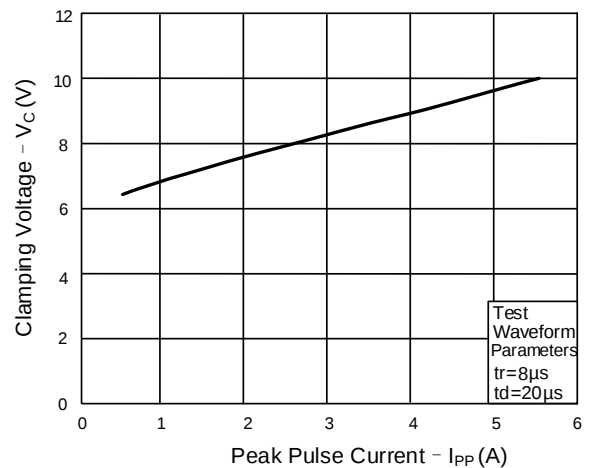
Absolute Maximum Rating($T_A=25^{\circ}\text{C}$ unless otherwise Specified)

Rating	Symbol	Value	Units
Peak Pulse Power ($t_p=8/20\mu\text{s}$)	PPP	65	Watts
Peak Pulse Current ($t_p=8/20\mu\text{s}$) (note1)	Ipp	5.5	A
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	VESD	30 30	kV
Lead Soldering Temperature	TL	260(10seconds)	$^{\circ}\text{C}$
Junction Temperature	TJ	-55 to + 125	$^{\circ}\text{C}$
Storage Temperature	Tstg	-55 to + 125	$^{\circ}\text{C}$

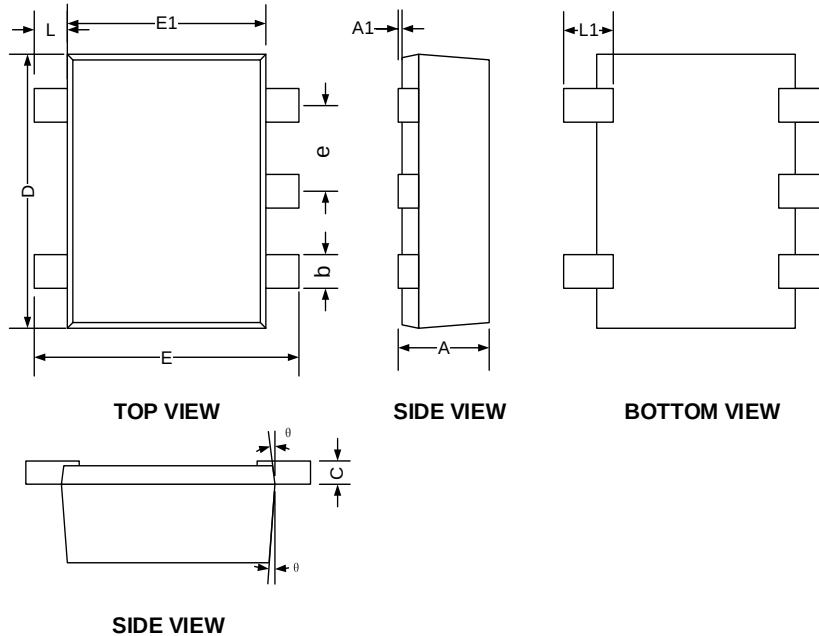
Electrical Characteristics($T_A=25^{\circ}\text{C}$ unless otherwise Specified)

Parameter	Symbol	Conditions	Min	Typical	Max	Units
Reverse Stand-Off Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	$I_T=1\text{mA}$	6			V
Reverse Leakage Current	I_{R}	$V_{\text{RWM}}=5\text{V}, T=25^{\circ}\text{C}$			0.5	μA
Clamping Voltage	V_{C}	$I_{\text{PP}}=5.5\text{A}, t_p=8/20\mu\text{s}$		10	12	V
Junction Capacitance	C_j	$V_{\text{R}} = 0\text{V}, f = 1\text{MHz}$		28	35	pF

Electrical Parameters ($T_A = 25^{\circ}\text{C}$ unless otherwise noted)


Typical Characteristics($T_A=25^{\circ}\text{C}$ unless otherwise Specified)
Figure 1: Peak Pulse Power vs. Pulse Time

Figure 2: Power Derating Curve

Figure3: Pulse Waveform

Figure 4: Clamping Voltage vs. Ipp


Outline Drawing – SOT-553



COMMON DIMENSION (MM)			
PKG	SOT-553		
REF.	MIN.	NOM.	MAX.
A	0.500	0.550	0.600
A1	0.000	0.025	0.050
b	0.170	0.220	0.270
c	0.090	0.125	0.160
e	0.450	0.500	0.550
D	1.500	1.600	1.700
E	1.500	1.600	1.700
E1	1.100	1.200	1.300
L	0.100	0.200	0.300
L1	0.200	0.300	0.400
θ	7° REF		

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