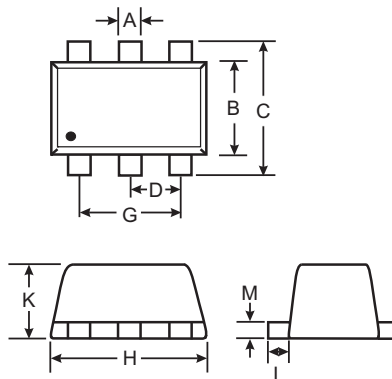


### Features

- Quad TVS in Common Anode Configuration
- Nominal Zener Voltage: 6.8V
- Ultra-Small Surface Mount Package
- Ideal For Transient Suppression
- **Lead Free By Design/RoHS Compliant (Note 1)**
- "Green Device" (Note 2)
- **Qualified to AEC-Q101 Standards for High Reliability**



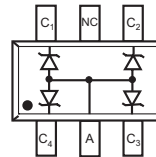
SOT-563			
Dim	Min	Max	Typ
A	0.15	0.30	0.25
B	1.10	1.25	1.20
C	1.55	1.70	1.60
D	0.50		
G	0.90	1.10	1.00
H	1.50	1.70	1.60
K	0.56	0.60	0.60
L	0.10	0.30	0.20
M	0.10	0.18	—
All Dimensions in mm			

### ESD Capability

- IEC 61000-4-2 Contact Method:  $\pm 8kV$
- IEC 61000-4-2 Air Discharge Method:  $\pm 25kV$

### Mechanical Data

- Case: SOT-563
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminal Finish: Matte Tin, Annealed Over Copper Leadframe. Solderable per MIL-STD-202, Method 208
- Orientation: See Diagram
- Marking: See Table Below
- Weight: 0.003 grams (approximate)
- Ordering Information: See Page 2



### Maximum Ratings @ $T_A = 25^\circ C$ unless otherwise specified

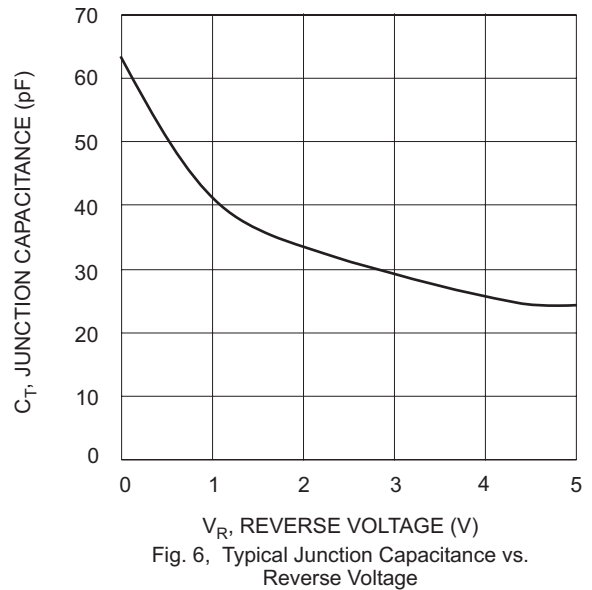
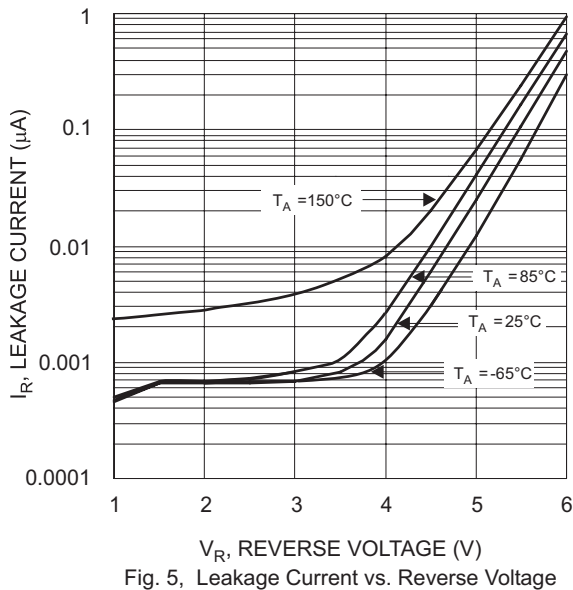
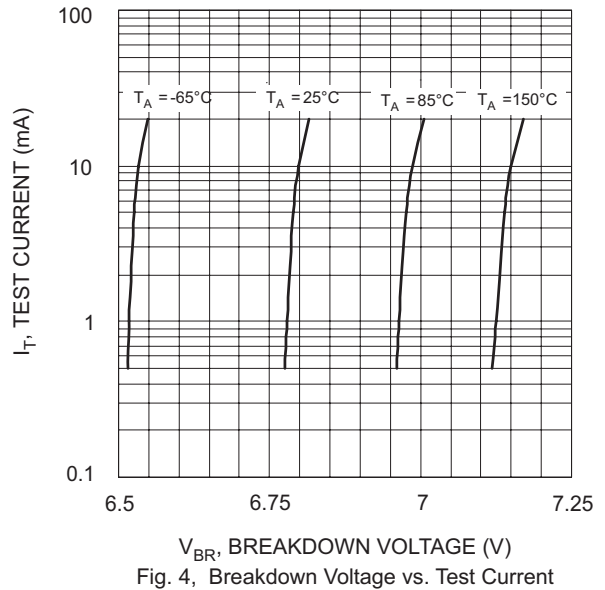
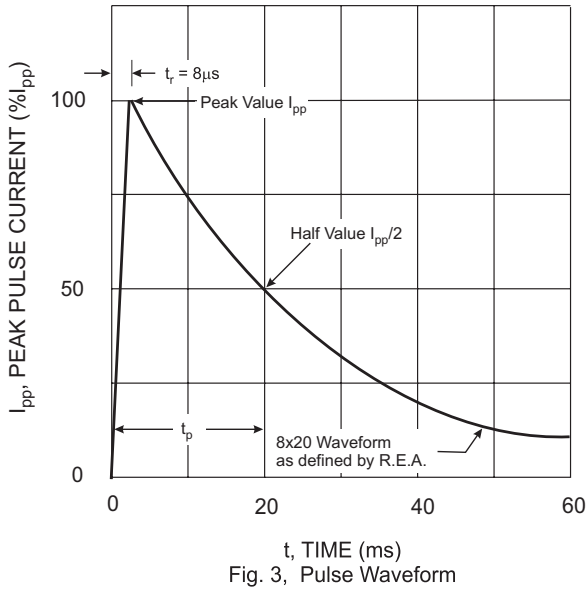
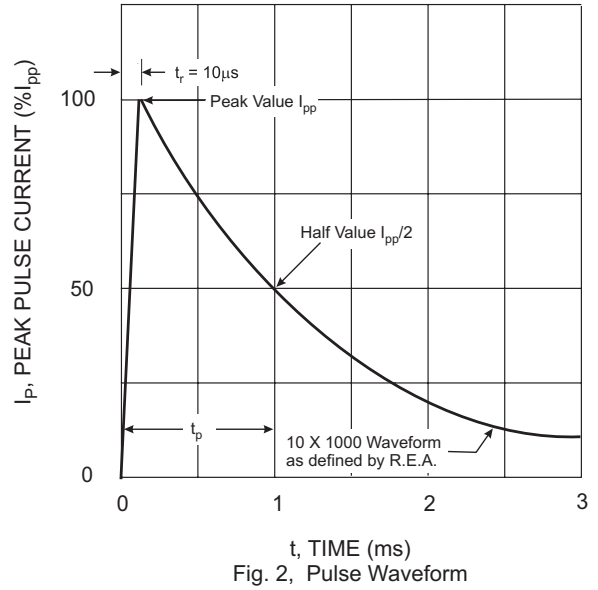
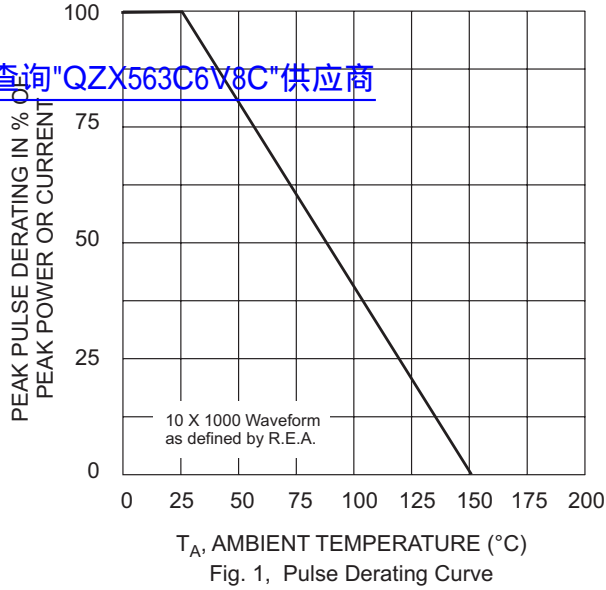
Characteristic	Symbol	Value	Unit
Forward Voltage @ $I_F = 10mA$ (Note 3)	$V_F$	0.9	V
Forward Voltage @ $I_F = 100mA$ (Note 3)	$V_F$	1.0	V
Power Dissipation (Note 4)	$P_d$	150	mW
Peak Power Dissipation, 10x1000 $\mu$ S Waveform (Note 5)	$P_{pk}$	10	W
Peak Power Dissipation, 8x20 $\mu$ S Waveform (Note 5)		80	
Thermal Resistance, Junction-to-Ambient (Note 4)	$R_{\theta JA}$	833	$^\circ C/W$
Operating and Storage Temperature Range	$T_j, T_{STG}$	-65 to +150	$^\circ C$

### Electrical Characteristics @ $T_A = 25^\circ C$ unless otherwise specified

Type Number	Marking Code	Reverse Standoff Voltage and Leakage		Breakdown Voltage (Note 3)			Maximum Reverse Current (Note 3)		Typical Junction Capacitance
		$V_{RWM}$	$I_R @ V_{RWM}$	$V_{BR} @ I_T = 1mA$			$I_R @ V_R$		$C_T @ V_R = 0V, f = 1MHz$
				Min (V)	Nom (V)	Max (V)	$\mu A$	V	
QZX563C6V8C	QB	5	1.5	6.47	6.8	7.14	1.0	3.0	63

- Note:
1. No purposefully added lead.
  2. Diodes Inc.'s "Green" policy can be found on our website at [http://www.diodes.com/products/lead\\_free/index.php](http://www.diodes.com/products/lead_free/index.php).
  3. Short duration pulse test used to minimize self-heating effect.
  4. Device mounted on FR-4 PCB, 1 inch x 0.85 inch x 0.062 inch; pad layout as shown on Diodes Inc. Suggested Pad Layout Document AP02001, which can be found on our website at <http://www.diodes.com/datasheets/ap02001.pdf>.
  5. Non-repetitive current pulse per Figure 2 and derate above  $T_A = 25^\circ C$  per Figure 1.

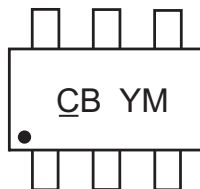
[查询"QZX563C6V8C"供应商](#)



**Ordering Information** (Note 6)

<a href="#">查询"QZX563C6V8C"供应商</a>	<b>Packaging</b>	<b>Shipping</b>
QZX563C6V8C-7	SOT-563	3000/Tape & Reel

**Marking Information**



XX = Product Type Marking Code (See Page 1)  
 YM = Date Code Marking  
 Y = Year (Ex: S = 2005)  
 M = Month (ex: 9 = September)

Date Code Key

<b>Year</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>
<b>Code</b>	S	T	U	V	W

<b>Month</b>	<b>Jan</b>	<b>Feb</b>	<b>March</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>
<b>Code</b>	1	2	3	4	5	6	7	8	9	O	N	D

Notes: 6. For Packaging Details: go to our website at <http://www.diodes.com/datasheets/ap02007.pdf>.

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