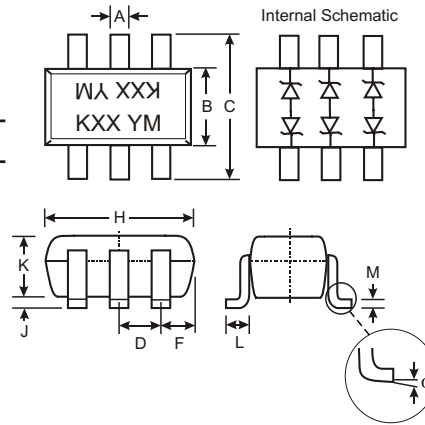


### Features

- Nominal Zener Voltages: 5.5V, 6.4V, 7.0V, 20.8V
- Ultra-Small Surface Mount Package
- Ideal For Transient Suppression

### Mechanical Data

- Case: SOT-363, Molded Plastic
- Case material - UL Flammability Rating 94V-0
- Moisture sensitivity: Level 1 per J-STD-020A
- Terminals: Solderable per MIL-STD-202, Method 208
- Marking: See Below & Sheet 2
- Weight: 0.006 grams (approx.)
- Ordering Information, See Sheet 2



SOT-363		
Dim	Min	Max
A	0.10	0.30
B	1.15	1.35
C	2.00	2.20
D	0.65 Nominal	
F	0.30	0.40
H	1.80	2.20
J	—	0.10
K	0.90	1.00
L	0.25	0.40
M	0.10	0.25
α	0°	8°
All Dimensions in mm		

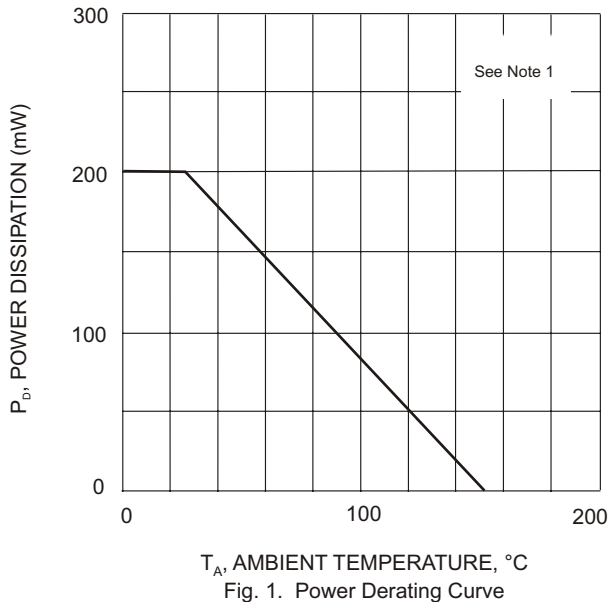
### Maximum Ratings @ T<sub>A</sub> = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1)	P <sub>d</sub>	200	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	R <sub>θJA</sub>	625	°C/W
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>STG</sub>	-65 to +150	°C

**Table 1**

Type Number	Marking Code	Zener Voltage Range (Note 2)			Maximum Zener Impedance (Note 4)				Maximum Reverse Current		Temperature Coefficient	
		V <sub>Z</sub> @ I <sub>ZT</sub>			Z <sub>ZT</sub> @ I <sub>ZT</sub>		Z <sub>ZK</sub> @ I <sub>ZK</sub>		I <sub>R</sub> @ V <sub>R</sub>		TC (mV/°C)	
		Nom (V)	Min (V)	Max (V)	Ω	mA	Ω	mA	μA	V	Min	Max
TBZ363C5V5	KL1	5.5	5.22	5.78	80	5.0	500	1.0	1.0	2.0	-5.5	-2.2
TBZ363C6V4	KL3	6.4	6.08	6.72	50	5.0	400	1.0	2.0	3.0	-4.0	0.5
TBZ363C7V0	KL5	7.0	6.65	7.35	18	5.0	200	1.0	2.0	4.0	-1.6	1.7
TBZ363C20V8	KV7	20.8	19.76	21.84	58	5.0	225	1.0	0.1	14	12.4	16.0

- Notes:
1. Mounted on FR4 PC Board with recommended pad layout which can be found on our website at <http://www.diodes.com/datasheets/ap02001.pdf>.
  2. V<sub>Z</sub> measured @ I<sub>ZT</sub> using a short duration pulse. Standard voltage tolerance is 5%.
  3. For Packaging Details, go to our website at <http://www.diodes.com/datasheets/ap02007.pdf>.
  4. f = 1KHz.



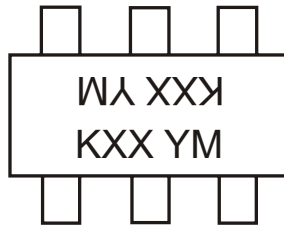
### Ordering Information (Note 3)

Device	Packaging	Shipping
(Type Number)-7*	SOT-363	3000/Tape & Reel

\* Add "-7" to the appropriate type number in Table 1 from Sheet 1 example: 6.4V Zener = TBZ3636V4-7.

Notes: 3. For Packaging Details, go to our website at <http://www.diodes.com/datasheets/ap02007.pdf>.

### Marking Information



KXX = Product Type Marking Code  
 YM = Date Code Marking  
 Y = Year ex: N = 2002  
 M = Month ex: 9 = September

Date Code Key

Year	2002	2003	2004	2005	2006	2007	2008	2009
Code	N	P	R	S	T	U	V	W

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