

# TBZ363C5V5 - TBZ363C20V8



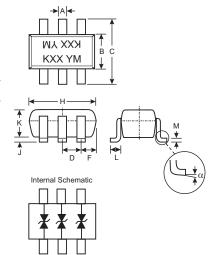
### TRIPLE BI-DIRECTIONAL SURFACE MOUNT ZENER **DIODE ARRAY**

#### **Features**

- Nominal Zener Voltages: 5.5V, 6.4V, 7.0V, 20.8V
- Ultra-Small Surface Mount Package
- Ideal For Transient Suppression
- Lead Free/RoHS Compliant (Note 4)

#### **Mechanical Data**

- Case: SOT-363
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Solderable per MIL-STD-202, Method 208
- Lead Free Plating (Matte Tin Finish annealed over Alloy 42 leadframe).
- Marking: See Below & Page 2
- Ordering Information, See Page 2
- Weight: 0.006 grams (approx.)



SOT-363								
Dim	Min	Max						
Α	0.10	0.30						
В	1.15	1.35						
С	2.00	2.20						
D	0.65 Nominal							
F	0.30	0.40						
Н	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** @ $T_A = 25^{\circ}C$ unless otherwise specified

Characteristic	Symbol	Value	Unit		
Power Dissipation (Note1)	Pd	200	mW		
Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{ heta JA}$	625	°C/W		
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>STG</sub>	-65 to +150	°C		

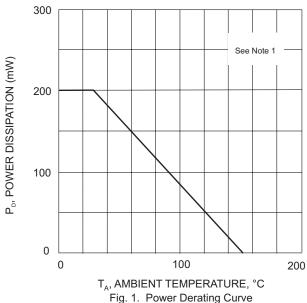
#### Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

	Marking		ner Voltag nge (Note	Maxi		ner Impe	dance	Maximum Reverse Current		Temperature Coefficient			
	Code		Vz @ Izt			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	μ <b>Α</b>	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. Vz measured @ IzT using a short duration pulse. Standard voltage tolerance is 5%.
f = 1KHz.

- 4. No purposefully added lead.





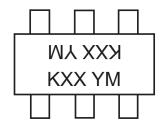
## Ordering Information (Note 5)

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

<sup>\*</sup> Add "-7-F" to the appropriate type number in Table 1 from Sheet 1 example: 6.4V Zener = TBZ363C6V4-7-F.

Notes: 5. 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		20	002	2003	2004	2	005	2006	2007	2008	2009	
Code				N P		R S		S	Т	U	V	W
Month	Jan	Feb	March	Ар	r May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Code	1	2	3	4	5	6	7	8	9	0	N	D

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