



## WBFBP-06C Plastic-Encapsulate Diodes

### FQZX363C5V6~QZX363C20

QUAD SURFACE MOUNT ZENER DIODE ARRAY

#### DESCRIPTION

Epitaxial planar Silicon diode

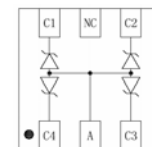
#### FEATURES

- Nominal Zener Voltages: 5.6V, 6.8V, 12V, 15V, 20V
- Ultra-Small Surface Mount Package

#### APPLICATION

Ideal For Transient Suppression, Sim card circuit

For portable equipment:(i.e. Mobile phone,MP3, MD,CD-ROM, DVD-ROM, Note book PC, etc.)



#### Maximum Ratings @TA=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Forward Voltage <sup>*1</sup> @I <sub>F</sub> =10mA	V <sub>F</sub>	0.9	V
Power Dissipation	P <sub>d</sub>	150	mW
Thermal Resistance, Junction to Ambient Air	R <sub>θJA</sub>	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

Type number	Marking code	Zener Voltage Range <sup>*1</sup>			Maximum Zener Impedance <sup>*2</sup>				Maximum Reverse Current <sup>*1</sup>		Temperature Coefficient Of Zener voltage @I <sub>ZT</sub> =5mA	
		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>	mV/°C	
		Nom(V)	Min(V)	Max(V)	Ω	mA	Ω	mA	uA	V	Min	Max
QZX363C5V6	K5F	5.6	5.32	5.88	40	5	400	1	1	2.0	-2.0	2.5
QZX363C6V8	K6F	6.8	6.47	7.14	15	5	80	1	2	4.0	1.2	4.5
QZX363C12	KFF	12	11.4	12.7	25	5	150	1	0.1	8.0	6.0	10.0
QZX363C15	KJF	15	13.8	15.6	30	5	200	1	0.1	10.5	9.2	13.0
QZX363C20	KMF	20	19.0	21.0	55	5	225	1	0.1	14	14.4	18.0

Notes:1. Short duration test pulse used to minimize self-heating effect.

2. f = 1KHz.

# Typical Characteristics

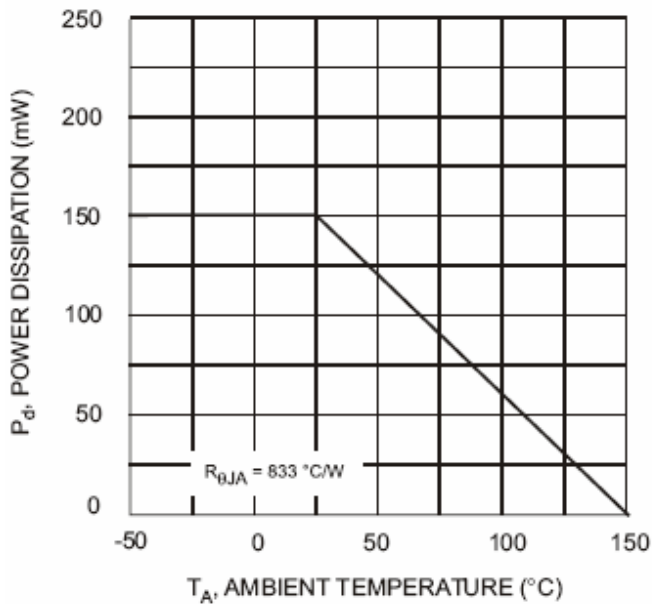


Fig. 1, Derating Curve - Total

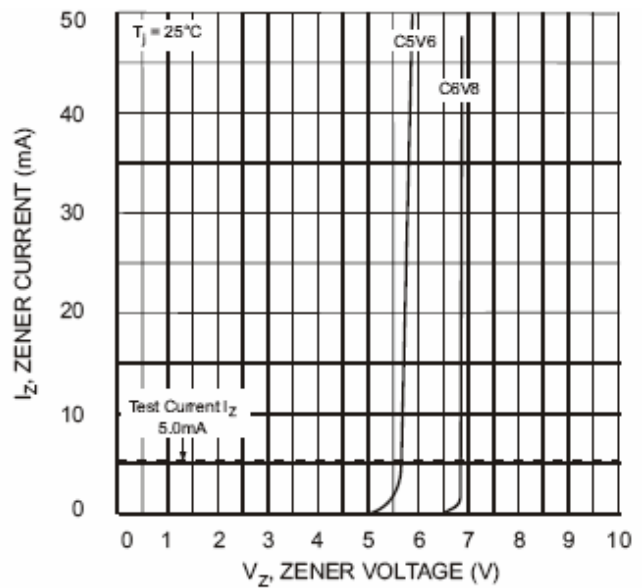


Fig. 2 Zener Breakdown Characteristics

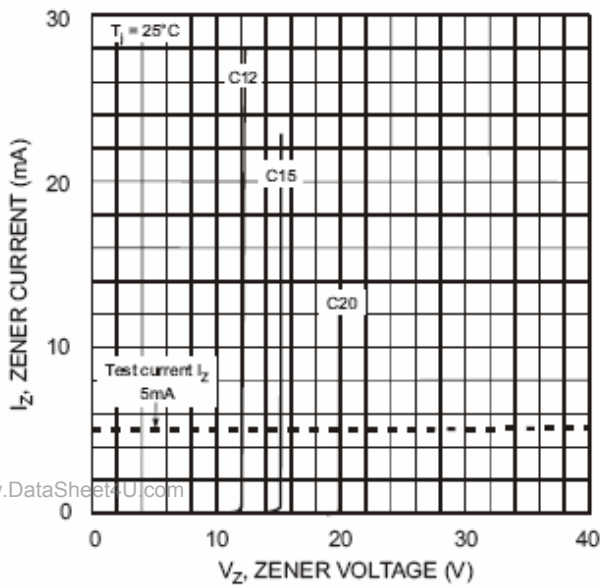


Fig. 3, Zener Breakdown Characteristics

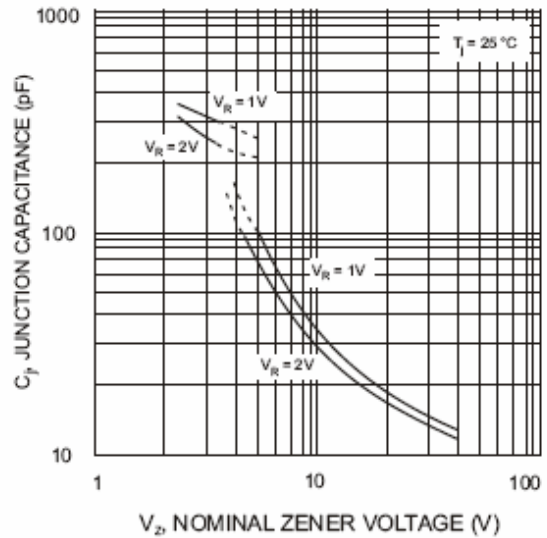
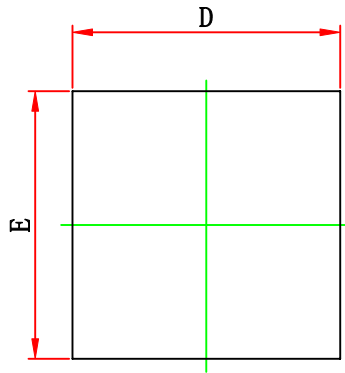


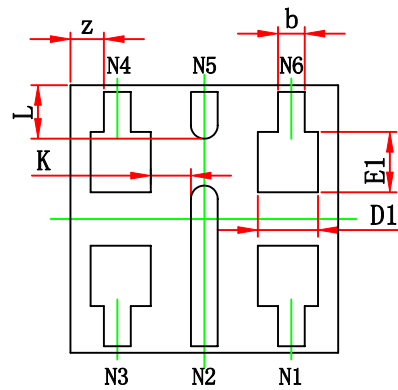
Fig. 4 Junction Capacitance vs Nominal Zener Voltage



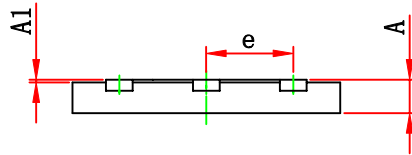
### WBFBP-06C(2×2×0.5) PACKAGE OUTLINE DIMENSIONS



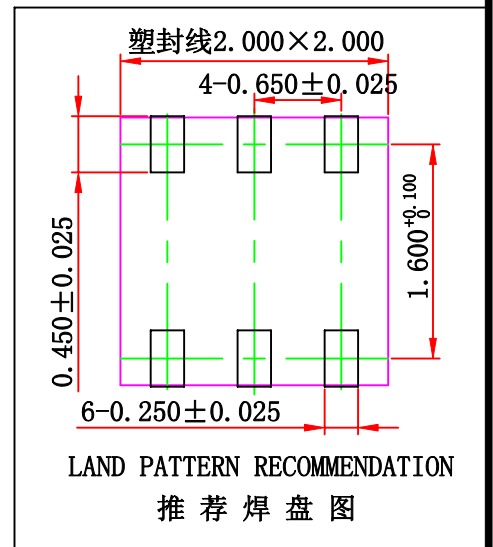
TOP VIEW



BOTTOM VIEW



SIDE VIEW



www.DataSheet4U.com

Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.450	0.550	0.018	0.022
A1	0.000	0.100	0.000	0.004
b	0.150	0.250	0.006	0.010
D	1.900	2.100	0.075	0.083
E	1.900	2.100	0.075	0.083
D1	0.450 REF.		0.018 REF.	
E1	0.450 REF.		0.018 REF.	
e	0.650 TYP.		0.026 TYP.	
L	0.400 REF.		0.016 REF.	
k	0.300 REF.		0.012 REF.	
z	0.500 REF.		0.020 REF.	

APPLICATION CIRCUITS

