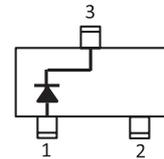


RoHS  
Compliant

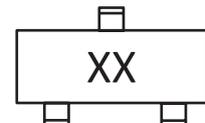


## Features

- Surface Device Type Mounting
- Low Zener Impedance
- Power Dissipation of 300mW
- High Stability and High Reliability
- Case: SOT23 Package
- Halogen Free



Device Schematic & PIN Configuration



XX or XXX = Product Type Marking Code

## Max. Ratings and Electrical Characteristics

Single phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%

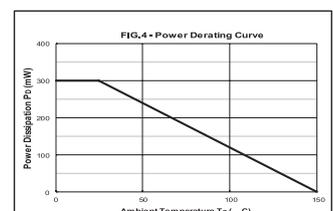
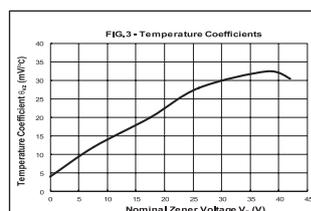
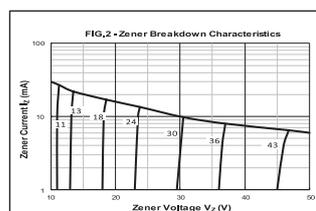
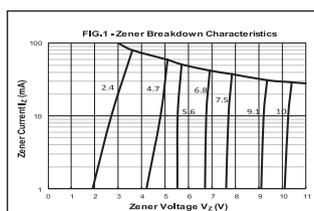
Parameter	Symbol	Rating	Units
Forward Voltage @ $I_F = 10\text{mA}$	$V_F$	0.9	V
Power Dissipation	$P_D$	300	mW
Junction Temperature	$T_J$	150	°C
Storage Temperature Range	$T_{STG}$	-55 to +150	
Thermal Resistance from Junction to Ambient Air	$R_{\theta JA}$	417	°C/W

**Notes:** 1. Valid provided that device terminals are kept at ambient temperature.  
2. Test with pulse, period=5ms, pulse width=300µs.  
3. f=1kHz

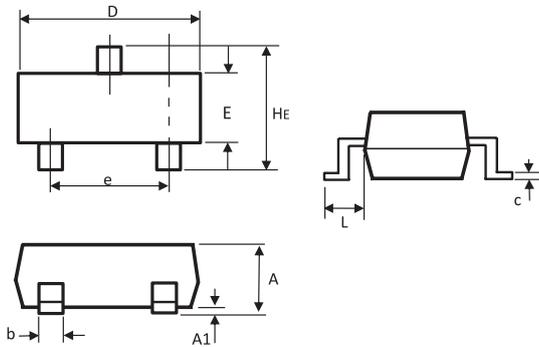
## Electrical Characteristics (TA = 25°C unless otherwise noted)

Part Number	Marking Code	$V_{z1}(@I_{zt})$			$Z_{zt}@I_{zt}$	$Z_{zk}$		IR	
		Min.	Max.	$I_{zt}$	Max.	Max.	$I_{zk}$	Max	VR
		V	V	mA	$\Omega$	$\Omega$	mA	$\mu\text{A}$	V
BZX84C3V3	Z14	3.1	3.5	5	95	600	1	5	1

## Rating and Characteristic Curves

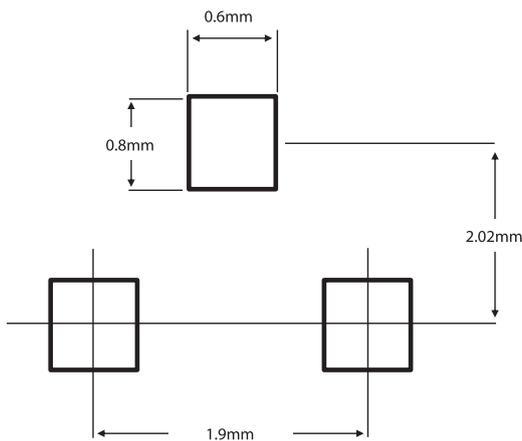


## Diagram



SOT23 Package		
Dim.	Min.	Max.
A	0.9	1.15
A1	0.0	0.1
b	0.3	0.5
c	0.08	0.15
D	2.8	3
E	1.2	1.4
e	1.8	2
L	0.55 Ref.	
He	2.25	2.55

## Soldering Pad Layout



### Note:

1. The pad layout is for reference purposes only.

Dimensions : Millimetres  
Tolerance  $\pm 0.05\text{mm}$

## Part Number Table

Description	Part Number
Single Zener Diode, 350mW, 3.3V, SOT-23	BZX84C3V3

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