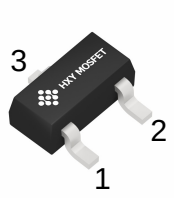
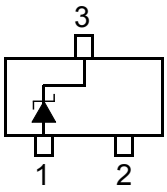
Features

Planar Die Construction.
300mW Power Dissipation.
Zener Voltages from 2.4V - 43V.
Ultra-Small Surface Mount Package Power Dissipation



SOT-23



Package Marking and Ordering Information

Product ID	Pack	Brand	Qty(PCS)
BZX84-C3V3,215	SOT-23	HXY MOSFET	3000

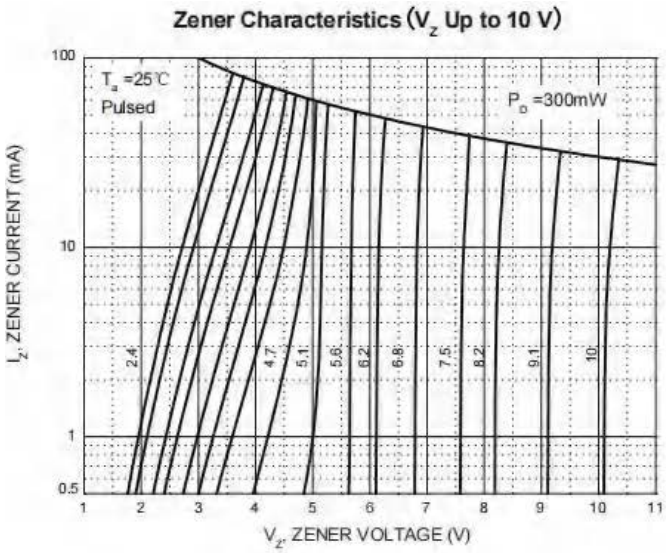
Absolute Maximum Ratings(Ta=25°C)

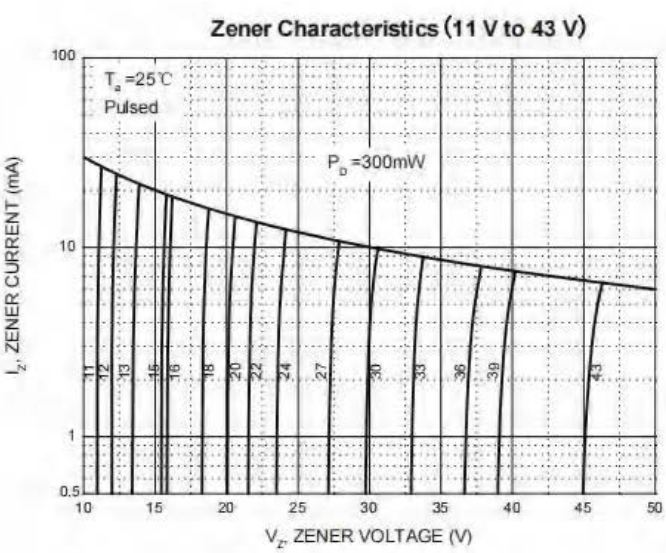
Symbol	Parameter	Value	Unit
V_F	Forward Voltage (Note 2) @ I_F=10mA	0.9	V
P_d	Power Dissipationn (Note 1)	200	mW
$R_{\Theta JA}$	Thermal Resistance From Junction To Ambient	625	°C/W
T_J	Operation Junction Temperature Range	-40~+125	°C
T_{STG}	Storage Temperature Range	-55~+150	°C

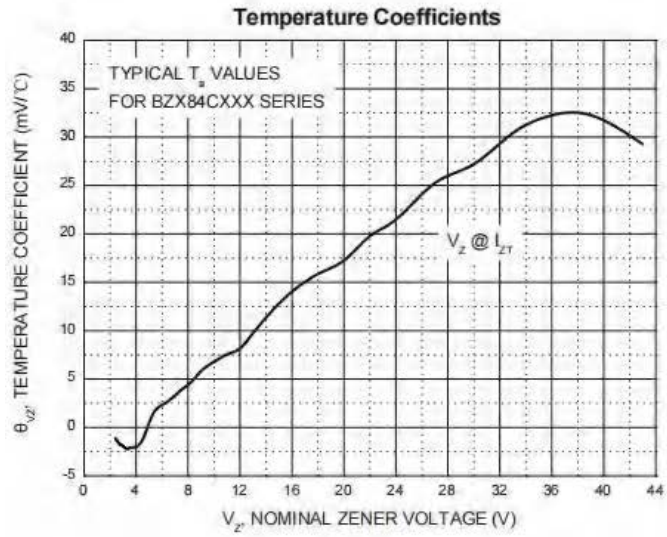
Electrical Characteristics (Ta =25°Cunless otherwise specified)

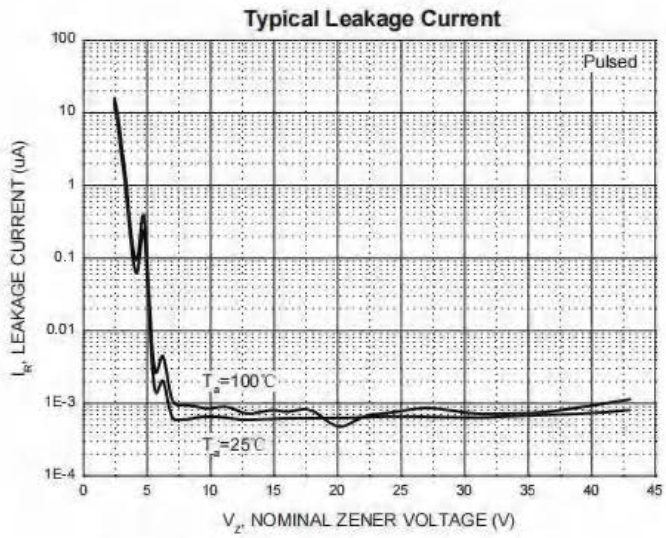
Type Number	Code	ZenerVoltage Range (Note 2)				Maximum Zener Impedance (Note 3)			Maximum Reverse Current		Temperature Coefficent of Zener voltage @ I_{ZT}=5mA	
		V_Z@I_{ZT}			I_{ZT}	Z_{ZT}@I_{ZT}	Z_{ZK}@I_{ZK}	I_{ZK}	I_R	V_R	mV/°C	
		Nom(V)	Min(V)	Max(V)	(mA)	(Ω)		(mA)	(μA)	(V)	Min	Max
BZX84-C3V3,215	Z14	3.3	3.1	3.5	5	95	600	1.0	5	1.0	-3.5	0

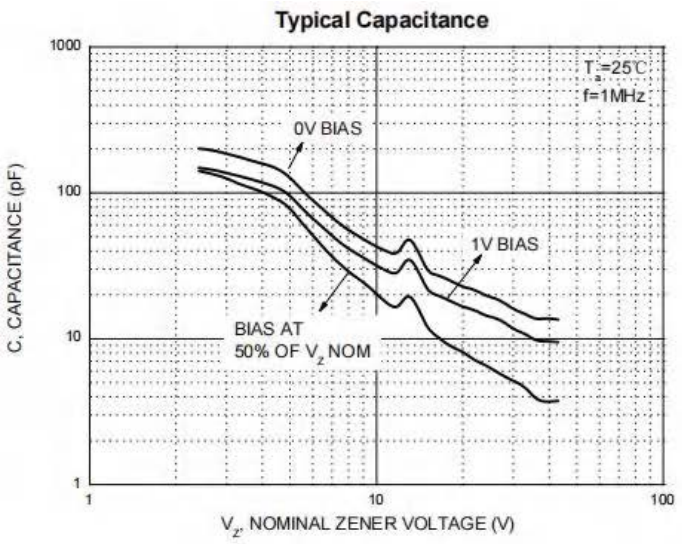
Typical Characteristics

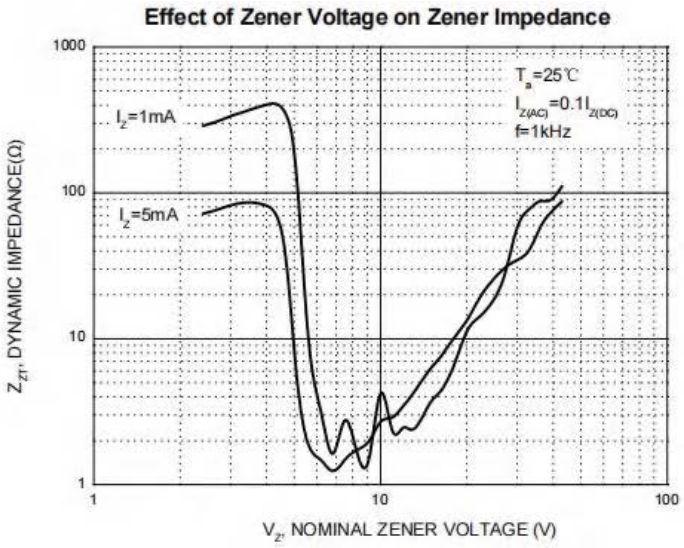


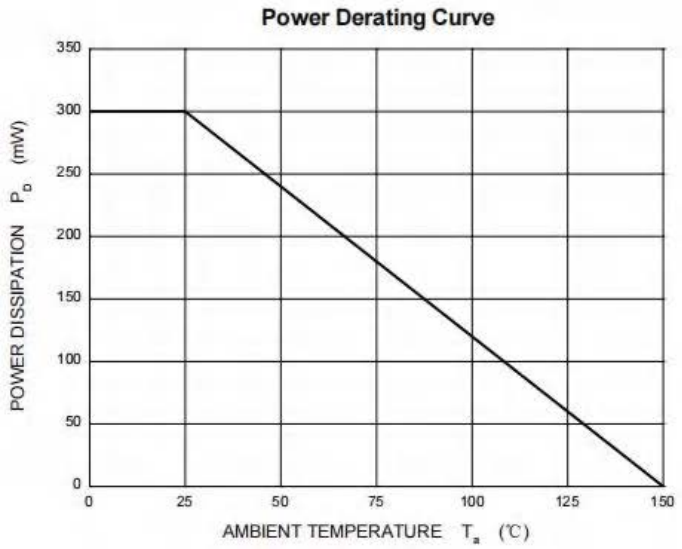




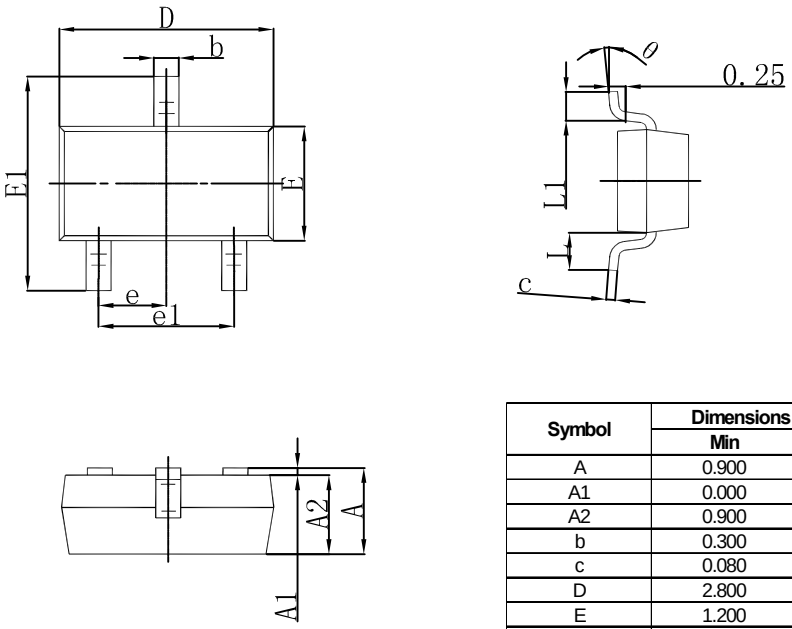



Typical Capacitance
T=25℃
f=1MHz
0V BIAS
1V BIAS
BIAS AT
50% OF V_Z NOM
C, CAPACITANCE (pF)
1000
100
10
1
1
10
100
V_Z, NOMINAL ZENER VOLTAGE (V)


Effect of Zener Voltage on Zener Impedance
T_a=25℃
I_Z(AC)=0.1I_Z(DC)
f=1kHz
I_Z=1mA
I_Z=5mA
Z_ZT, DYNAMIC IMPEDANCE(Ω)
1000
100
10
1
1
10
100
V_Z, NOMINAL ZENER VOLTAGE (V)

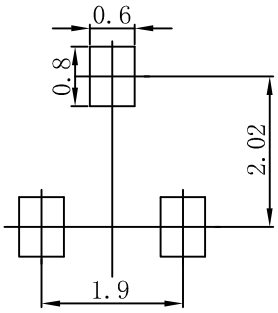

Power Derating Curve
POWER DISSIPATION P_D (mW)
350
300
250
200
150
100
50
0
0
25
50
75
100
125
150
AMBIENT TEMPERATURE T_a (℃)

SOT-23 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950 TYP		0.037 TYP	
e1	1.800	2.000	0.071	0.079
L	0.550 REF		0.022 REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

SOT-23 Suggested Pad Layout



Note:
1.Controlling dimension:in millimeters.
2.General tolerance:± 0.05mm.
3.The pad layout is for reference purposes only.

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