

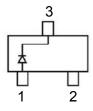
Features

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



Package Marking and Ordering Information

Product ID	Pack	Brand	Qty(PCS)		
BZX84C3V9LT1G	SOT-23	HXY MOSFET	3000		



Absolute Maximum Ratings(Ta=25℃)

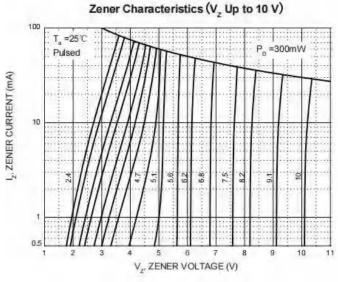
Symbol	Parameter	Value	Unit
V_{F}	Forward Voltage (Note 2) @ I _F =10mA	0.9	V
P_d	Power Dissipationn (Note 1)	200	mW
$R_{\Theta JA}$	Thermal Resistance From Junction To Ambient	625	°C/W
TJ	Operation Junction Temperature Range	-40~+125	°C
T _{STG}	Storage Temperature Range	-55~+150	°C

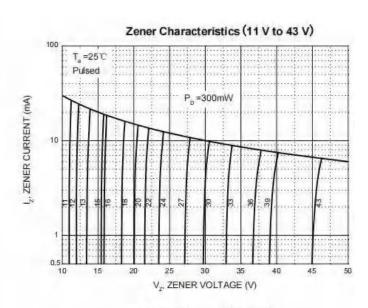
Electrical Characteristics (Ta=25°Cunless otherwise specified)

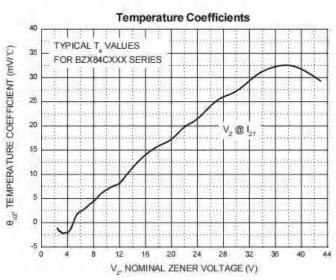
Type Number	Code	ZenerVoltage Range (Note 2)				Maximum Zener Impedance (Note 3)		Maximum Reverse Current		Temperature Coefficent of Zener voltage @ I _{ZT} =5mA		
		V _Z @I _{ZT}		I _{ZT}	Z _{ZT} @I _{ZT}	$Z_{ZK}@I_{ZK}\\$	zĸl	I_R	V_{R}	mV/°C		
		Nom(V)	Min(V)	Max(V)	(mA)	2)	Ω)	(mA)	(µA)	(V)	Min	Max
BZX84C3V9LT1G	Z16	3.9	3.7	4.1	5	90	600	1.0	3	1.0	-3.5	0

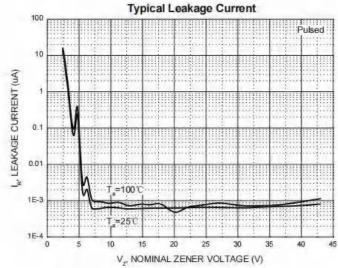


Typical Characteristics

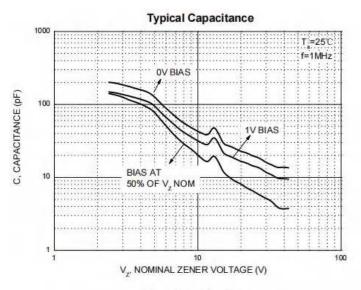


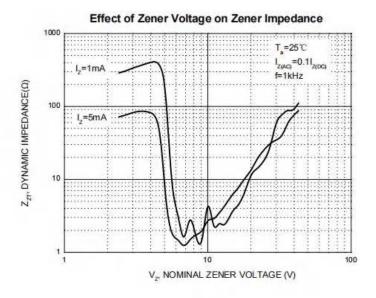


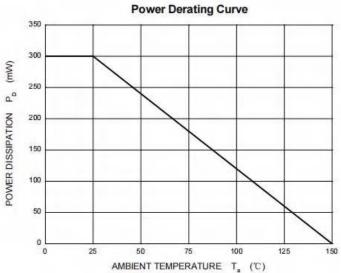






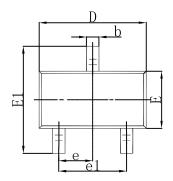


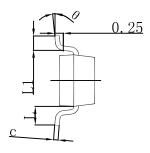


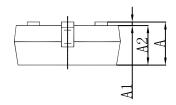




SOT-23 Package Outline Dimensions

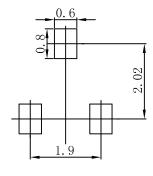






Symbol	Dimensions	In Millimeters	Dimensions In Inches			
	Min	Max	Min	Max		
Α	0.900	1.150	0.035	0.045		
A1	0.000	0.100	0.000	0.004		
A2	0.900	1.050	0.035	0.041		
b	0.300	0.500	0.012	0.020		
С	0.080	0.150	0.003	0.006		
D	2.800	3.000	0.110	0.118		
E	1.200	1.400	0.047	0.055		
E1	2.250	2.550	0.089	0.100		
е	0.950	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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