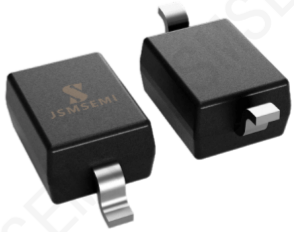
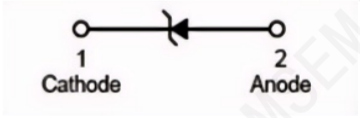
Features

- Large selection of zener voltages: 2V ~ 75V
- Tight voltage tolerance: ±2% for BZX384-C3V3,115-JSM
- Ultra low-profile package well suited for automated assembly
- MSL Class 1 compatible



Application

- General voltage regulation
- Mobile & handheld systems



Maximum Ratings(@Ta= 25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Forward Voltage @ I_F=10mA	V_F	0.9	V
Power Dissipation	P_D	400	mW
Thermal Resistance (Junction-to-Ambient)	$R_{\theta JA}$	313	°C/W
Junction Temperature Range	T_J	-55 ~ +150	°C
Storage Temperature Range	T_{STG}	-65 ~ +150	°C

Note: Device mounted on an FR4 Printed-Circuit Board (PCB), single-sided copper, tin-plated and standard footprint

Characteristics at Ta=25℃

Type	Marking	Zener Voltage Range(1)			LZT	DynamkicImpedance	Reverse Current	
		VZT(at LZT)				ZZT=(at LZT)	IR	at VR
		Min(V)	Nom(V)	Max(V)	(mA)	Max(Ω)	Max(μA	(V)
BZX384-C3V3,115-JSM	1F	3.23	3.3	3.37	5	130	20	1

(1)V_{ZT} is tested with pulses(20 ms)

Typical Characteristics(@ T_A = 25°C unless otherwise specified)

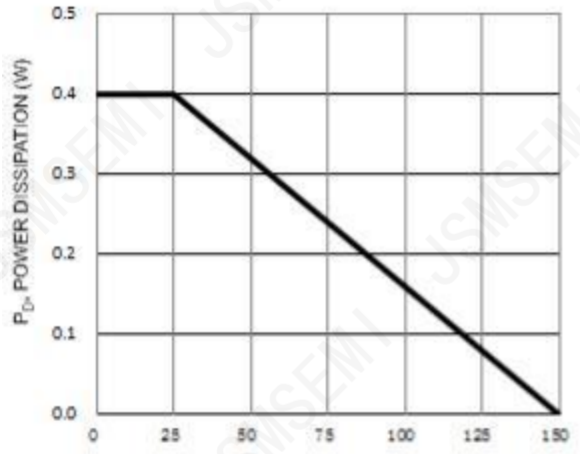


Fig. 1 Power Derating Curve

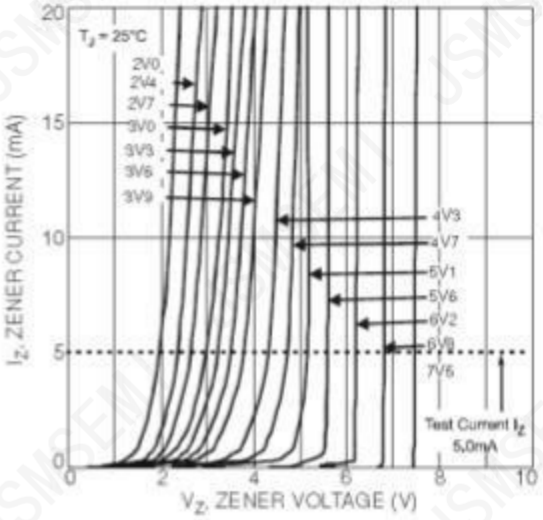


Fig. 2 Typical Zener Breakdown Characteristics

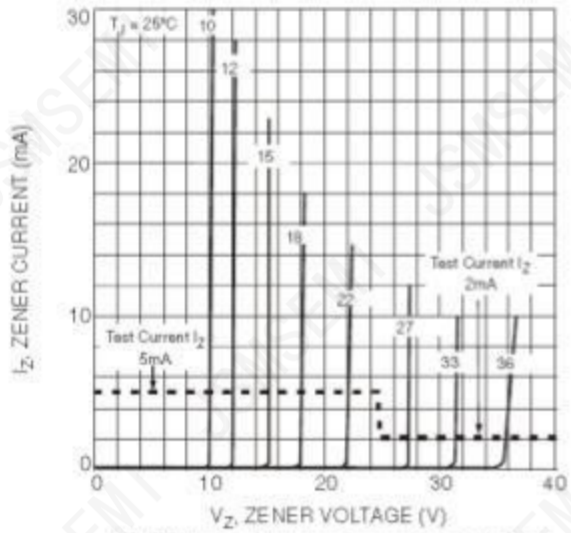


Fig. 3 Typical Zener Breakdown Characteristics

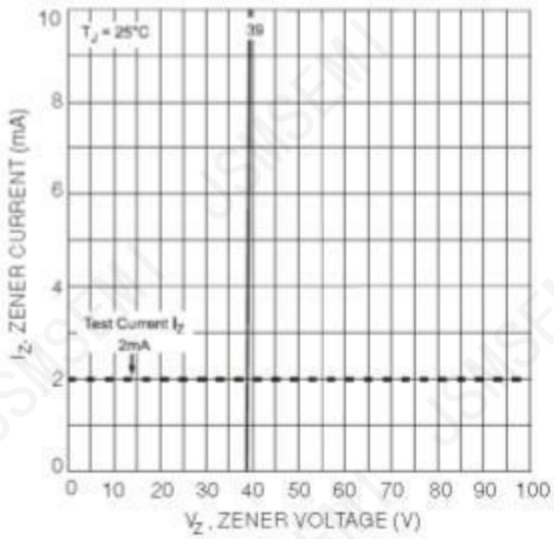


Fig. 4 Typical Zener Breakdown Characteristics

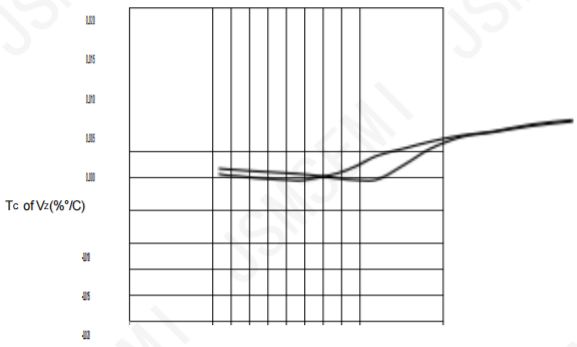


Fig. 5 Typical Temperature Coefficient of Zener Voltage

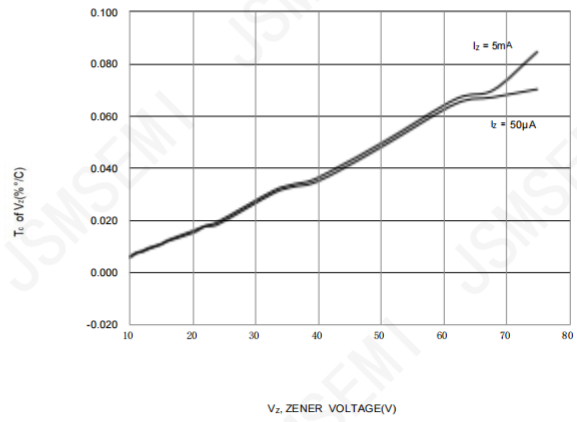
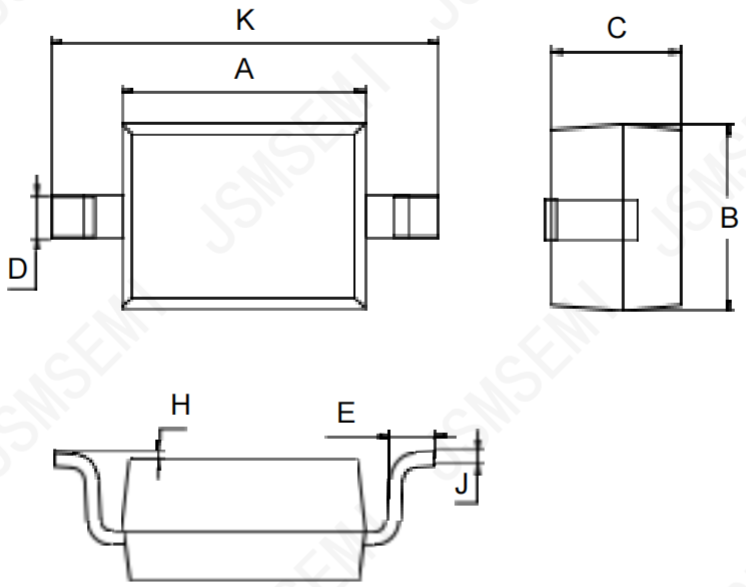


Fig. 6 Typical Temperature Coefficient of Zener Voltage

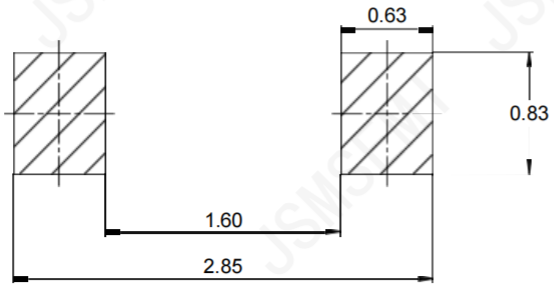
Package Outline Dimensions(Unit: mm)

Plastic surface mounted package



SOD-323		
Dimension	**Min.**	**Max.**
A	1.60	1.80
B	1.20	1.40
C	0.80	0.90
D	0.25	0.35
E	0.22	0.42
H	0.02	0.10
J	0.05	0.15
K	2.55	2.75

Mmounting pad layout(Unit: mm)



Revision History

Rev.	Change	Date
V1.0	Initial version	2/23/2024

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