

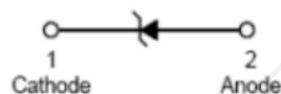
FEATURES

- Large selection of zener voltages: 2V ~ 75V
- Tight voltage tolerance: $\pm 2\%$ for B-series
- Ultra low-profile package well suited for automated assembly
- MSL Class 1 compatible



APPLICATIONS

- General voltage regulation
- Mobile & handheld systems



MAXIMUM RATING (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

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

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

Characteristics at $T_A = 25^\circ\text{C}$

Type	Marking	Zener Voltage Range(1)			LZT	Dynamickimpedance	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	33	3.37	5	130	20	1

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

TYPICAL CHARACTERISTICS(@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

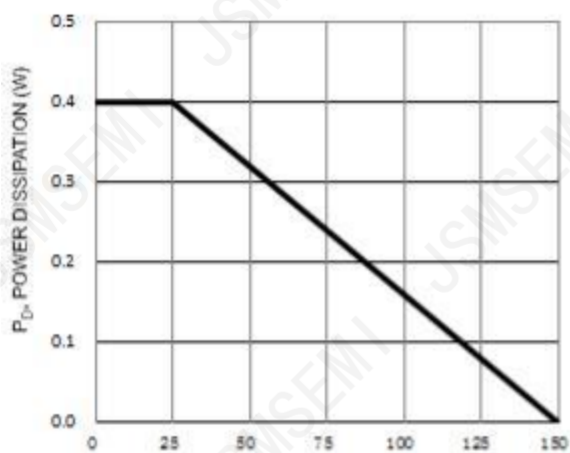


Fig. 1 Power Derating Curve

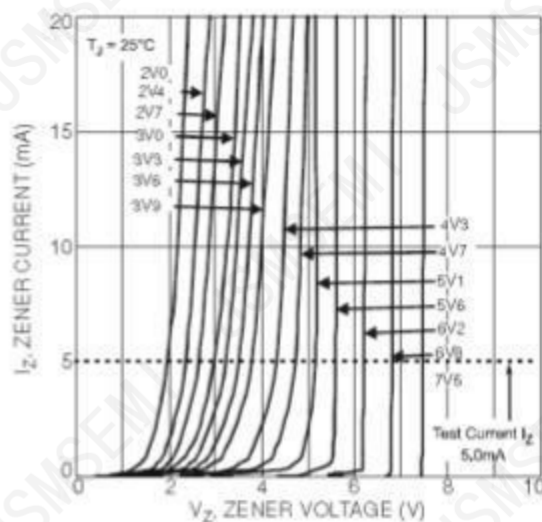


Fig. 2 Typical Zener Breakdown Characteristics

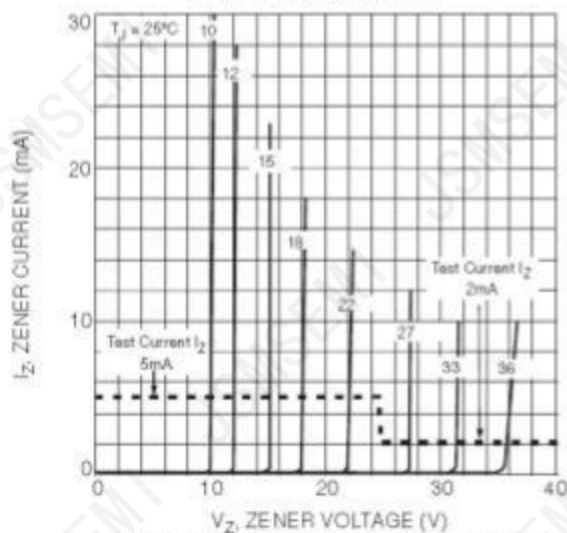


Fig. 3 Typical Zener Breakdown Characteristics

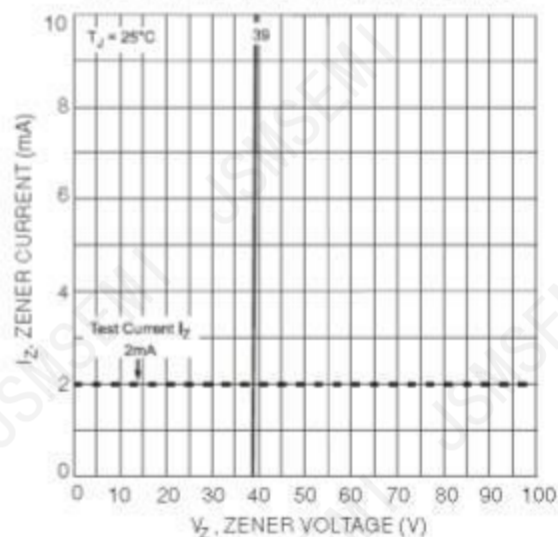


Fig. 4 Typical Zener Breakdown Characteristics

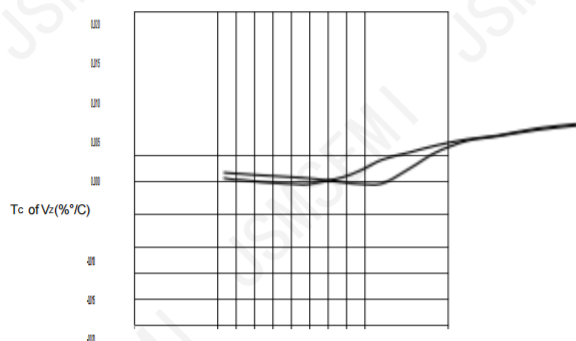


Fig. 5 Typical Temperature Coefficient of Zener Voltage

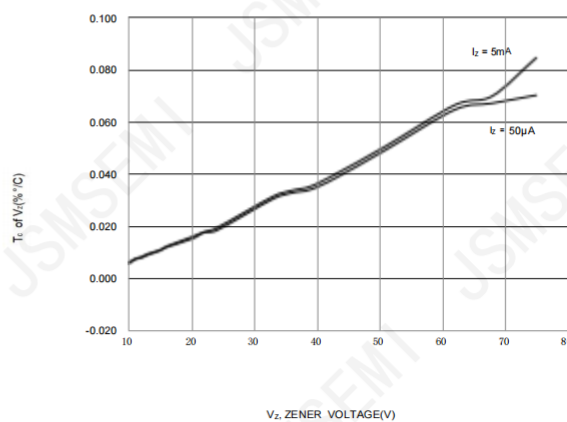
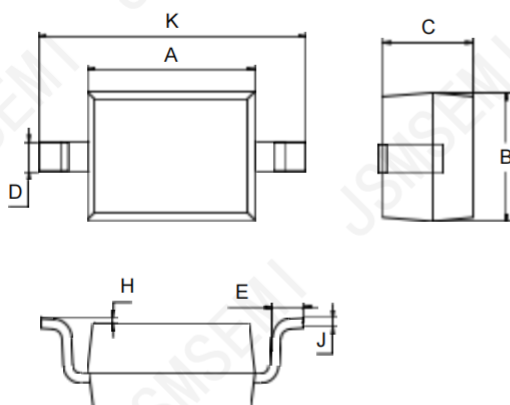


Fig. 6 Typical Temperature Coefficient of Zener Voltage

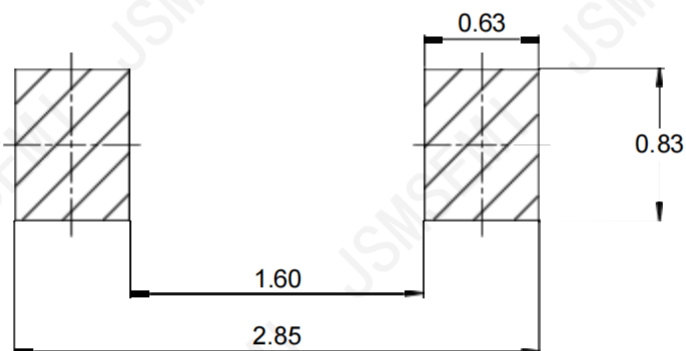
PACKAGE OUTLINE (Unit: mm)

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

MOUNTING PAD LAYOUT (Unit: mm)



PACKAGE INFORMATION

Part Number	Package	Shipping Quantity
BZX384-C3V3,115-JSM	SOD-323	3000pcs / Tape & Reel

Revision History

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

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