

BZT52-C2V4FN2 SERIES

SURFACE MOUNT SILICON ZENER DIODES

VOLTAGE 2.4~33 Volts **POWER** 250 mWatts

DFN 2L

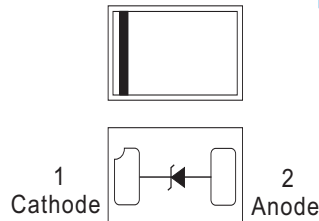
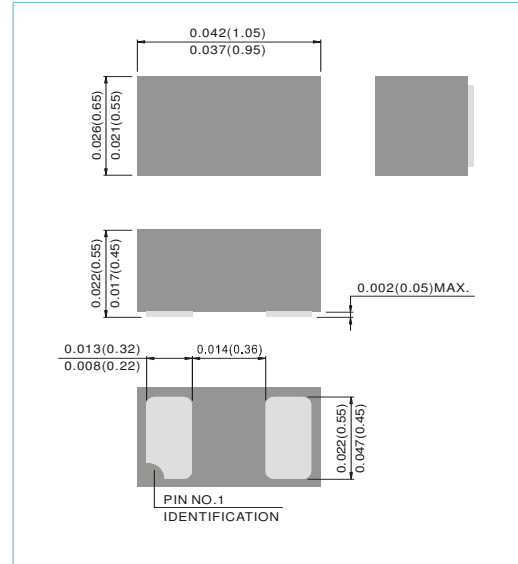
Unit : inch(mm)

FEATURES

- Planar Die construction
- 250mW Power Dissipation
- Zener Voltages from 2.4~33V
- Ideally Suited for Automated Assembly Processes
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: DFN-2L, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00004 ounces, 0.0011 grams
- Mounting Position: Any
- Polarity: Color band denotes cathode end



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

Parameter	Symbol	Value	Units
Power Dissipation	P _D	250	mW
Thermal resistance Junction to Ambient (Note 1)	R _{θJA}	500	°C/W
Operating Junction Temperature and Storage Temperature Range	T _J	-55 to +150	°C

Part Number	Nominal Zener Voltage			Max. Zener Impedance				Max Reverse Leakage Current		Marking Code
	V _Z @ I _{ZT}			Z _{VT} @ I _{ZT}		Z _{VK} @ I _{ZK}		I _R @ V _R		
	Nom. V	Min. V	Max. V	Ω	mA	Ω	mA	μA	V	
250 mWatts Zener Diodes										
BZT52-C2V4FN2	2.4	2.28	2.52	100	5.0	400	1.00	50	1	W1
BZT52-C6V8FN2	6.8	6.46	7.14	15	5.0	80	1.00	2.0	4.0	WC
BZT52-C33FN2	33	31.35	34.65	80	2.0	325	0.5	0.05	23.1	WU

NOTES:

1. Mounted on 48cm² FR-4 PCB board.

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RATING AND CHARACTERISTIC CURVES

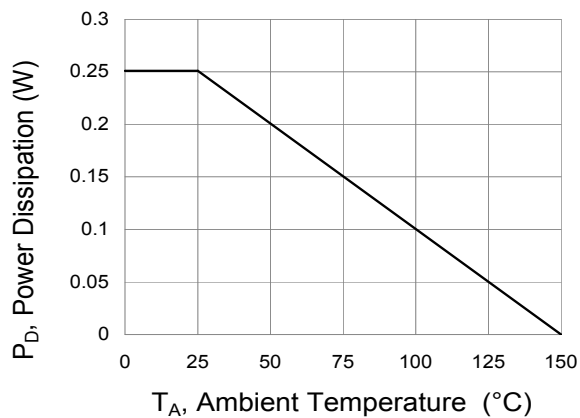


Fig.1 Power Derating Curve

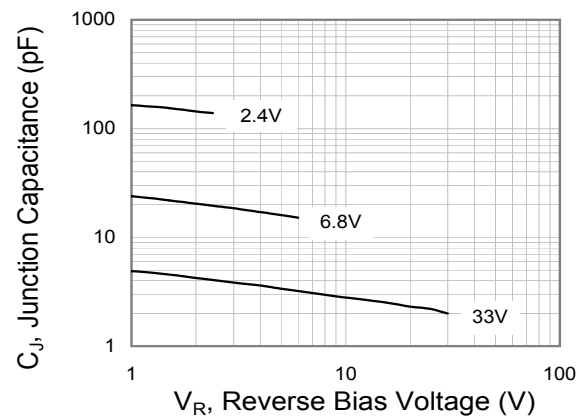


Fig.2 Typical Junction Capacitance

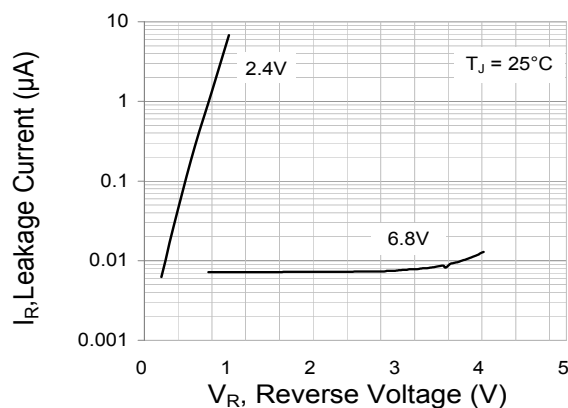


Fig.3 Typical Leakage Characteristics

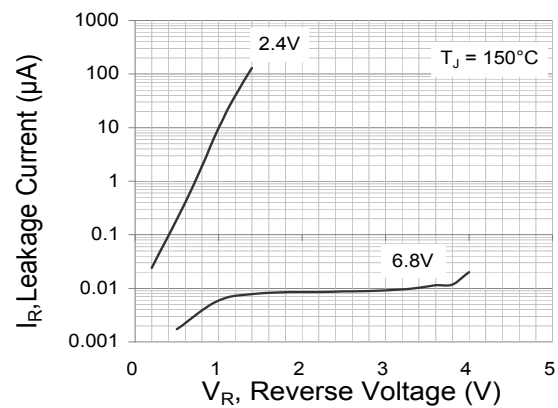


Fig.4 Typical Leakage Characteristics

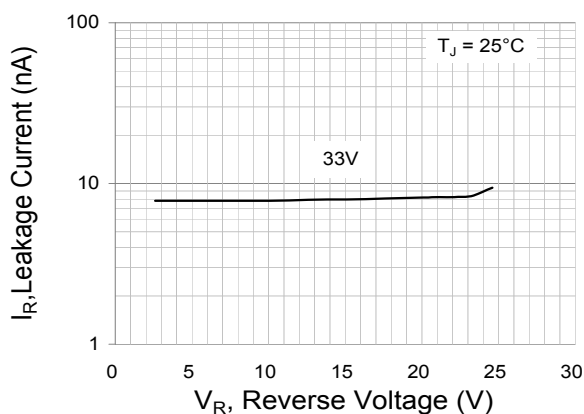


Fig.5 Typical Leakage Characteristics

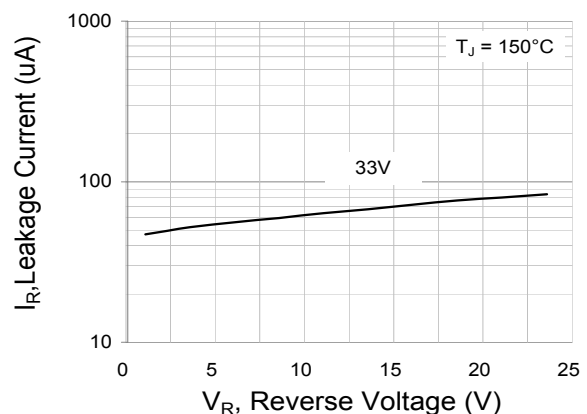


Fig.6 Typical Leakage Characteristics

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RATING AND CHARACTERISTIC CURVES

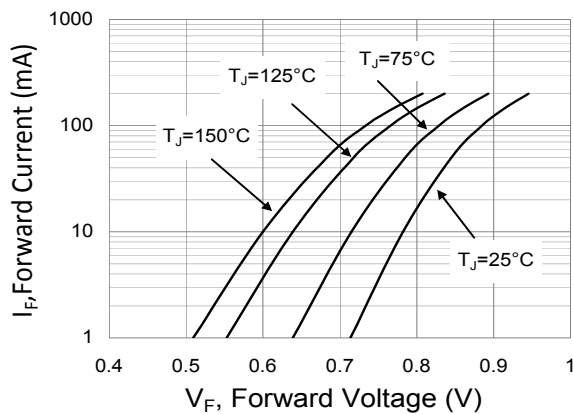


Fig.7 Typical Forward Characteristics

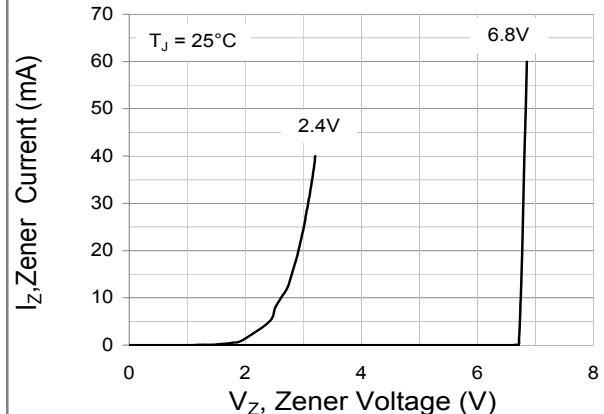


Fig.8 Typical Zener Characteristics

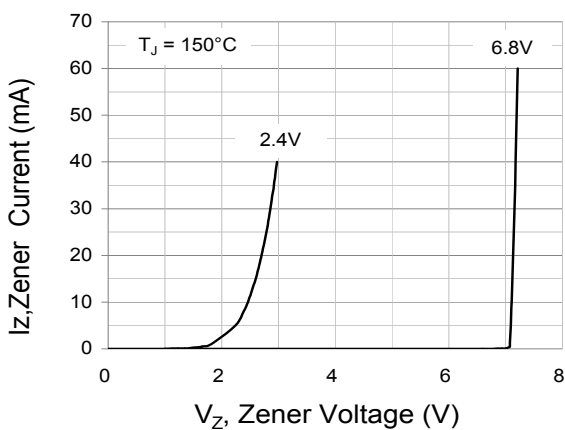


Fig.9 Typical Zener Characteristics

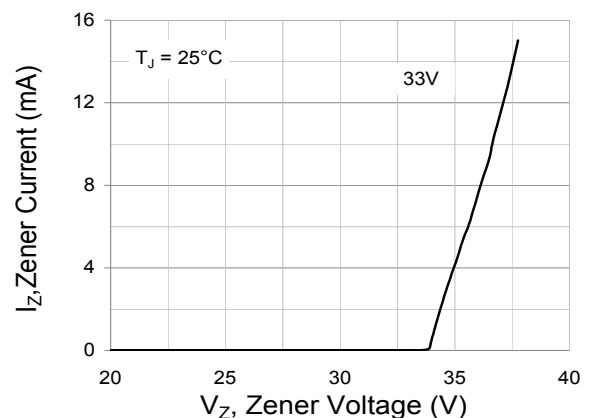


Fig.10 Typical Zener Characteristics

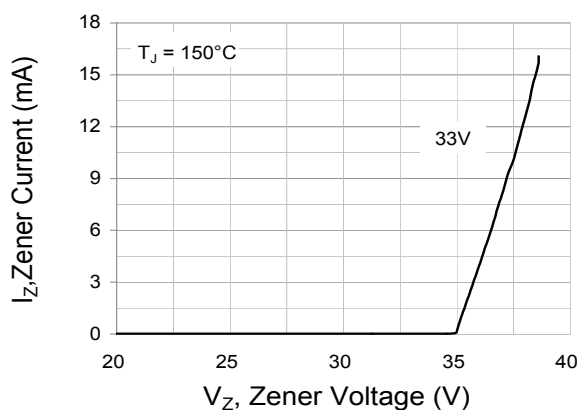
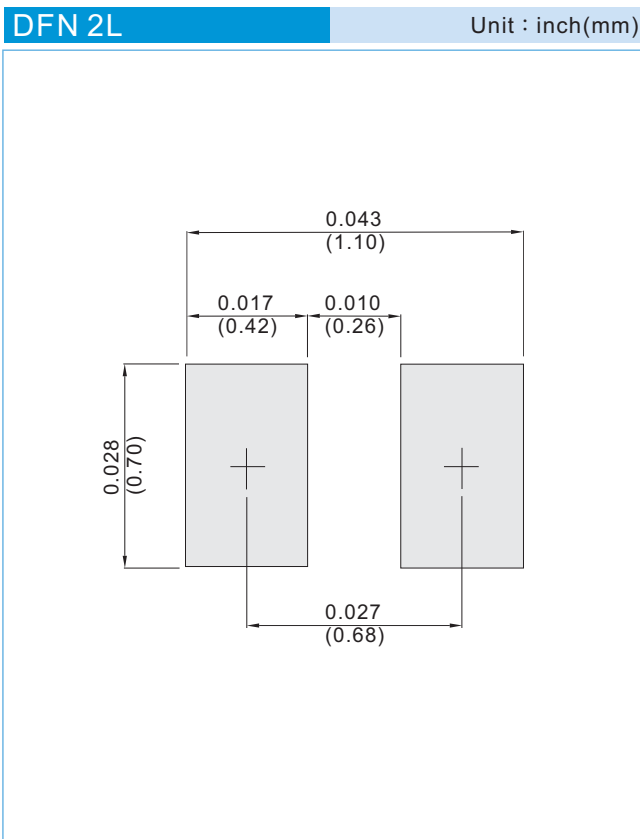


Fig.11 Typical Zener Characteristics

BZT52-C2V4FN2 SERIES

MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
T/R - 8K per 7" plastic Reel

LEGAL STATEMENT

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