



BZT52-B5V1FN2-AU SERIES

SURFACE MOUNT SILICON ZENER DIODES

VOLTAGE 5.1~5.6 Volts **POWER** 250 mWatts

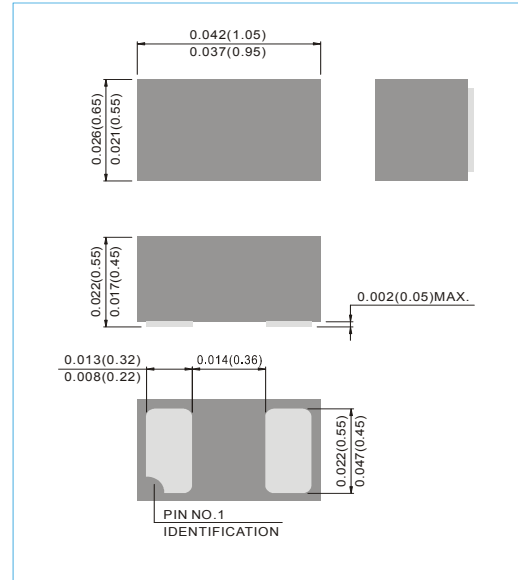
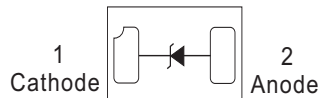
DFN 2L Unit : inch(mm)

FEATURES

- Planar Die construction
- 250mW Power Dissipation
- Zener Voltages from 5.1-5.6V
- Ideally Suited for Automated Assembly Processes
- Acquire quality system certificate : TS16949
- AEC-Q101 qualified
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

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



MAXIMUM RATINGS (T_A=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

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

Part Number	Nominal Zener Voltage			Max. Zener Impedance				Max Reverse Leakage Current		Marking Code
	V _Z @ I _{ZT}			Z _{ZT} @ I _{ZT}		Z _{ZK} @ I _{ZK}		I _R @ V _R		
	Nom. V	Min. V	Max. V	Ω	mA	Ω	mA	μA	V	
250 mWatts Zener Diodes										
BZT52-B5V1FN2-AU	5.1	5.00	5.20	60	5.0	480	1.00	2	2	W9
BZT52-B5V6FN2-AU	5.6	5.49	5.71	40	5.0	400	1.00	1	2	WA

NOTES:

1. Mounted on minimum pad layout .



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RATING AND CHARACTERISTIC CURVES

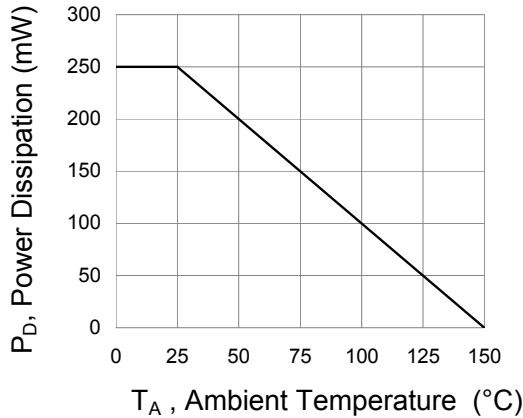


Fig.1 Steady-State Power Derating Curve

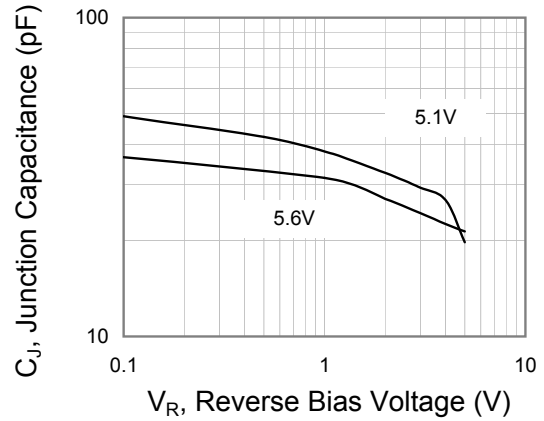


Fig.2 Typical Junction Capacitance

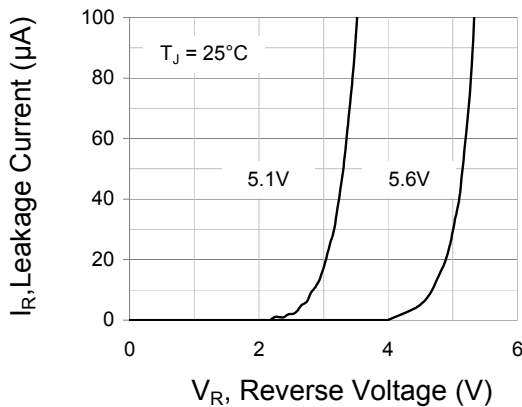


Fig.3 Typical Leakage Characteristics

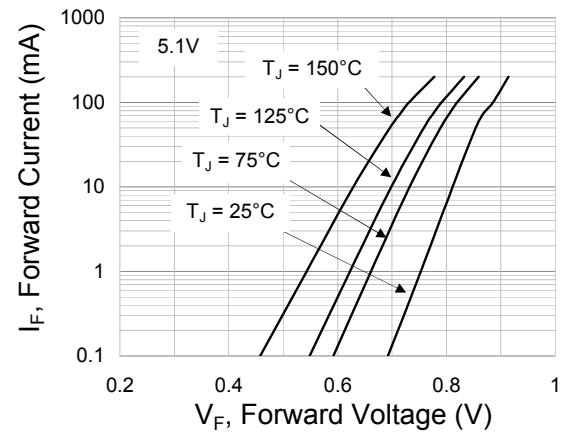


Fig.4 Typical Forward Characteristics

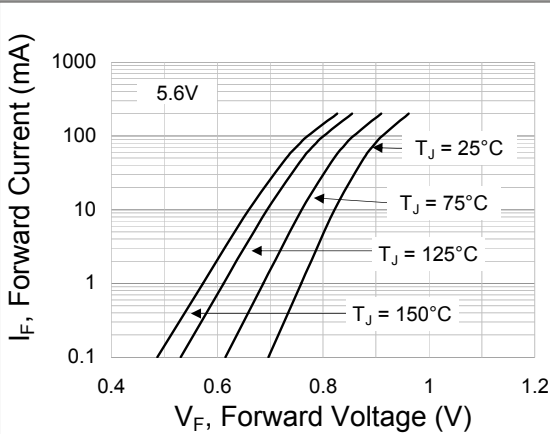


Fig.5 Typical Forward Characteristics

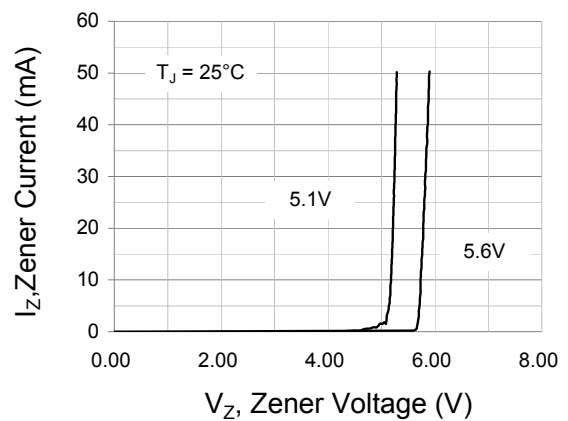


Fig.6 Typical Zener Characteristics



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RATING AND CHARACTERISTIC CURVES

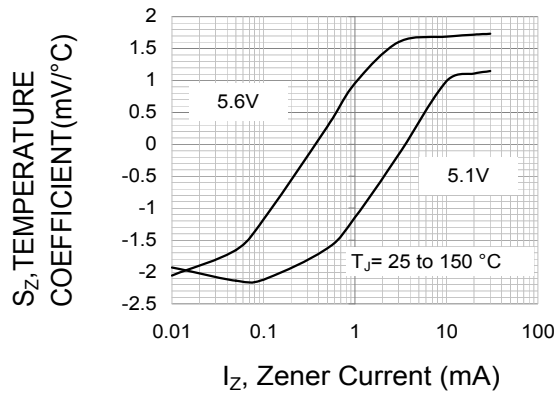
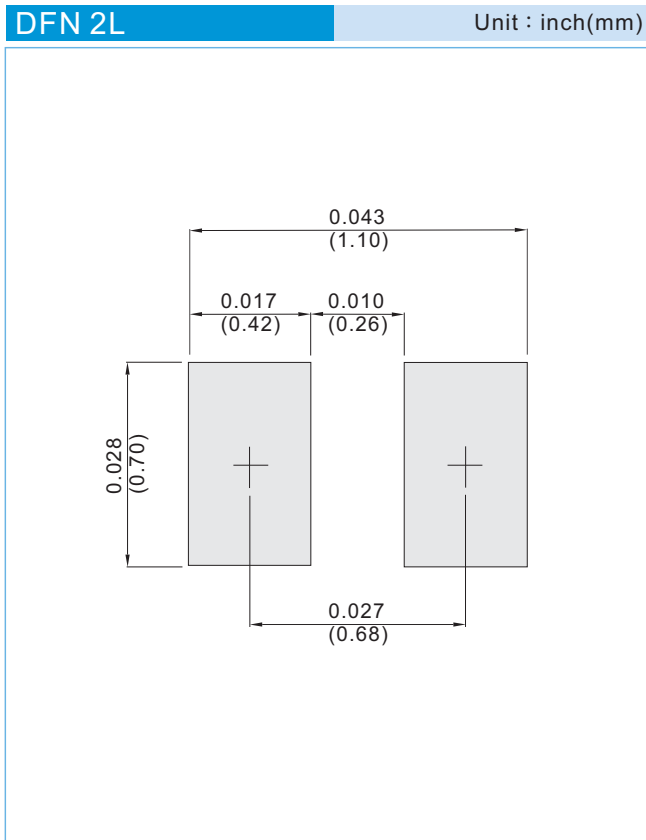


Fig.7 Temperature coefficient as a function of working current; typical values.



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MOUNTING PAD LAYOUT



ORDER INFORMATION

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

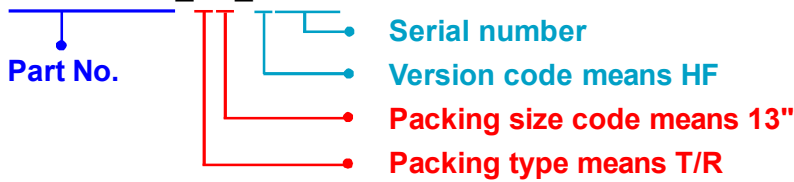


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Part No_packing code_Version
BZT52-B5V1FN2-AU_R1_000A1

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



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