



SURFACE MOUNT SILICON ZENER DIODES

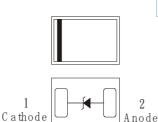
VOLTAGE 5.1-6.8 Volt POWER 250mWatt

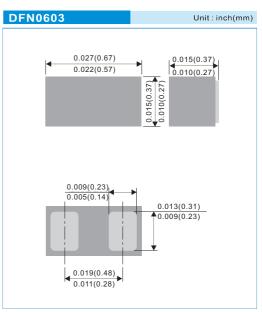
FEATURES

- · Planar Die construction
- · 250mW Power Dissipation
- Zener Voltages from 5.1~6.8V
- · Ideally Suited for Automated Assembly Processes
- Lead free in compliance with EU RoHS 2.0

MECHANICAL DATA

- · Case: DFN0603, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00001 ounces, 0.00028grams
- · Polarity:Color band denotes cathode end





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

Parameter	Symbol	Value	Units
Power Dissipation	Po	250	mW
Thermal resistance Junction to Ambient (Note 1)	Rөja	500	°C/W
Operating Junction Temperature and StorageTemperature Range	TJ	-55 to +150	°C

Part Number	Nominal Zener Voltage		Max. Zener Impedance				Max Reverse Leakage Current		Marking	
	Vz @ Izт		Zzt @ Izt		Zzk @ Izk		IR @ VR		Code	
	Nom. V	Min. V	Max. V	Ω	mA	Ω	mA	μΑ	V	
250 mWatts Zener Diodes										
BZT52-C5V1FN2B	5.1	4.84	5.37	60	5.0	400	1.00	0.8	2	9
BZT52-C6V8FN2B	6.8	6.47	7.14	8	5.0	80	1.00	0.1	3	С

NOTES:

1.Mounted on 48 cm² FR-4 PCB board.





RATING AND CHARACTERISTIC CURVES

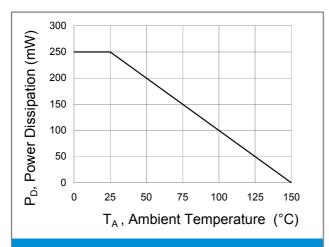


Fig.1 Power Derating Curve

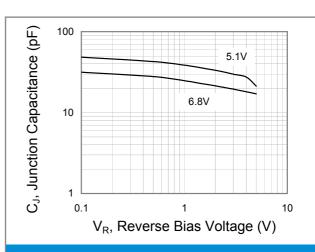


Fig.2 Typical Junction Capacitance

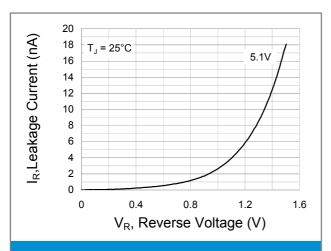


Fig.3 Typical Leakage Characteristics

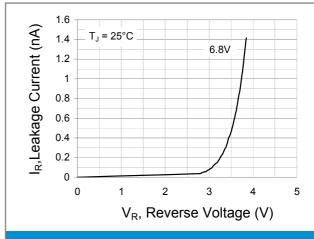


Fig.4 Typical Leakage Characteristics

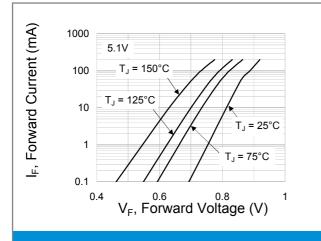


Fig.5 Typical Forward Characteristics

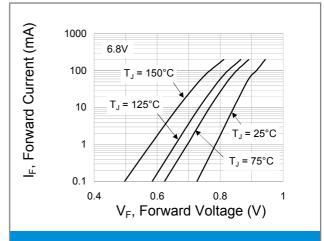


Fig.6 Typical Forward Characteristics





RATING AND CHARACTERISTIC CURVES

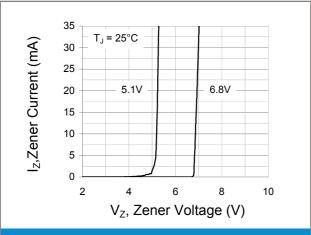


Fig.7 Typical Zener Characteristics

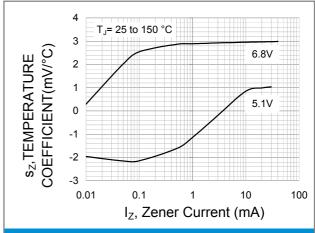
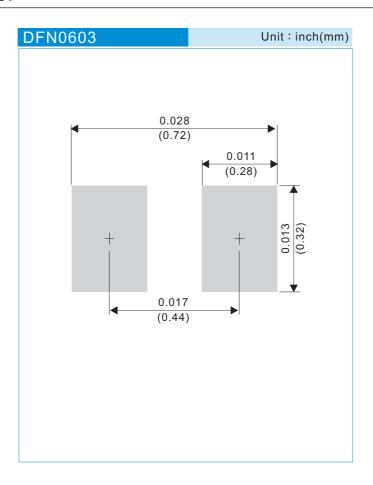


Fig.8 Temperature coefficient as a function of working current; typical values.





MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 10K per 7" plastic Reel

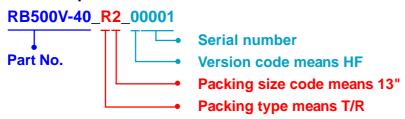




Part No_packing code_Version

BZT52-C5V1FN2B_R1_00001

For example:



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)	Α	N/A	0	HF	0	serial number	
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number	
Bulk Packing (B/P)	В	13"	2				
Tube Packing (T/P)	Т	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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