



SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE 30 Volt CURRENT 0.2 Ampere

FEATURES

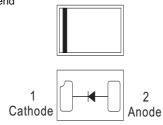
- · Low turn-on voltage
- · Fast switching
- PN junction guard ring for transient and ESD protection
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)
- Green molding compound as per IEC61249 Std. . (Halogen Free)

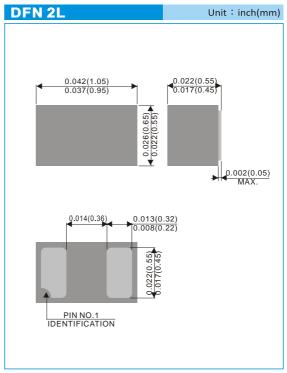
MECHANICAL DATA

- · Case: DFN 2L, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026

• Polarity: Color band denotes cathode end

Marking: BN





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

Parameter	Symbol	Value	Units
Peak Repetitive Reverse Voltage	V _{RRM}	30	V
Maximum Average Forward Current at T _A =75°C	I _{F(AV)}	0.2	Α
Peak Forward Surge Current, 1s	I _{FSM}	0.6	Α
Maximum Instantaneous Forward Voltage @ I _F =1mA @ I _F =100mA	V _F	0.32 0.6	V
Maximum DC Reverse Current at Rated DC Blocking Voltage $@V_R = 25V$	I _R	2	μΑ
Junction Capacitance at V _R =1V	C	25	pF
Thermal Resistance, Junction to Ambient	$R_{_{\theta JA}}$	400	°C/ W
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to +125	°C

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TYPICAL CHARACTERISTIC CURVES

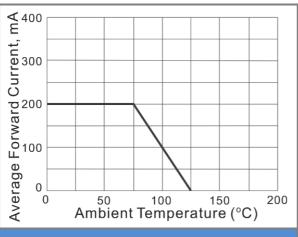


Fig.1 Forward Current Derating Curve

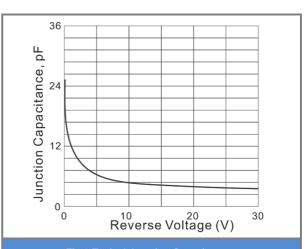


Fig.2 Typical Junction Capacitance

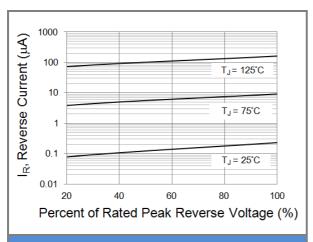
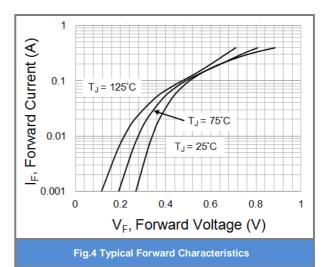


Fig.3 Typical Reverse Characteristics



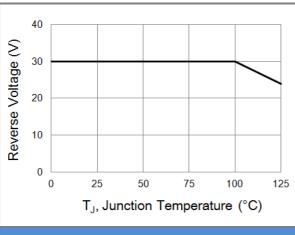


Fig.5 Operating Temperature Derating Curve

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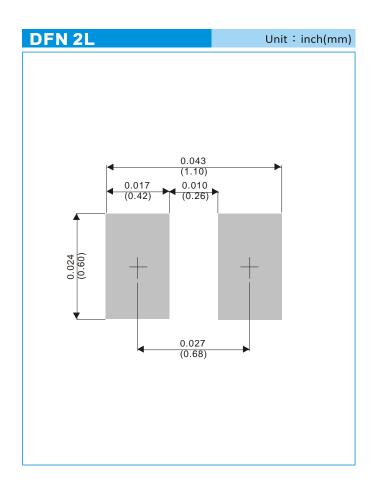




Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
BAT54FN2_R1_00001	DFN 2L	8K pcs / 7" reel	BN	Halogen free

MOUNTING PAD LAYOUT



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