

BAT54FN2

Surface Mount Schottky Barrier

Voltage

30 V

Current

0.2 A

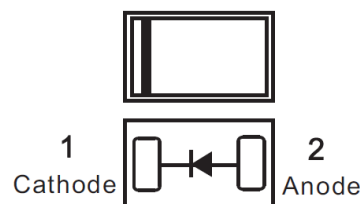
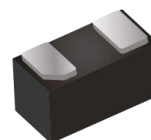
Features

- Low turn-on voltage
- Fast switching
- PN junction guard ring for transient and ESD protection
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case : DFN1006-2L Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0006 grams

DFN1006-2L



Maximum Ratings and Thermal Characteristics (T_A = 25°C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	30	V
Maximum Average Forward Current at T _A = 75 °C	I _{F(AV)}	0.2	A
Peak Forward Surge Current : 1s	I _{FSM}	0.6	A
Junction Capacitance at V _R = 1 V	C _J	25	pF
Thermal Resistance, Junction to Ambient	R _{θJA}	400	°C/W
Operating Junction Temperature Range	T _J	-55~125	°C
Storage Temperature Range	T _{STG}	-55~125	°C



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Electrical Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V_F	$I_F = 1\text{ mA}, T_J = 25^\circ\text{C}$	-	-	0.32	V
		$I_F = 100\text{ mA}, T_J = 25^\circ\text{C}$	-	-	0.6	
Reverse Current	I_R	$V_R = 25\text{ V}, T_J = 25^\circ\text{C}$	-	-	2	μA



BAT54FN2

TYPICAL CHARACTERISTIC CURVES

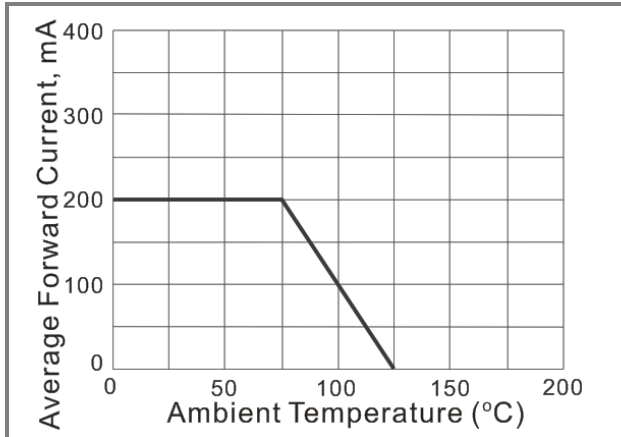


Fig.1 Forward Current Derating Curve

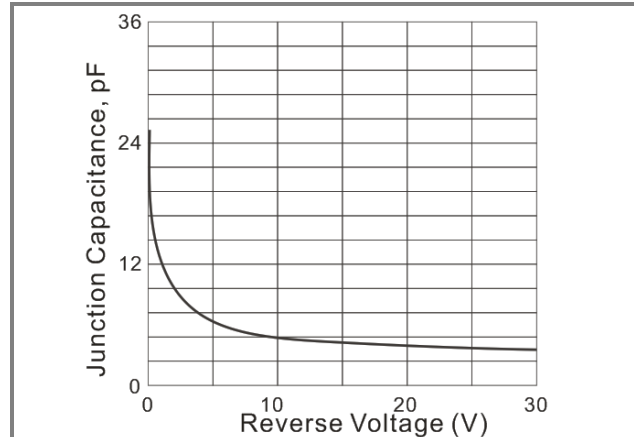


Fig.2 Typical Junction Capacitance

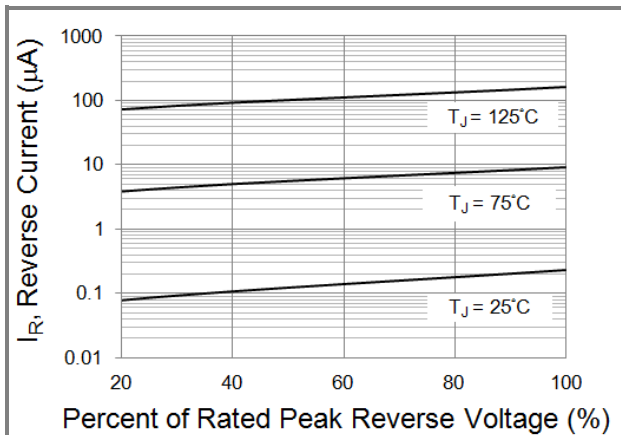


Fig.3 Typical Reverse Characteristics

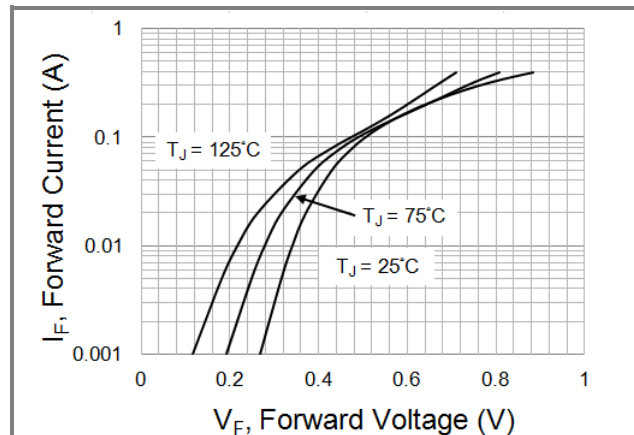


Fig.4 Typical Forward Characteristics

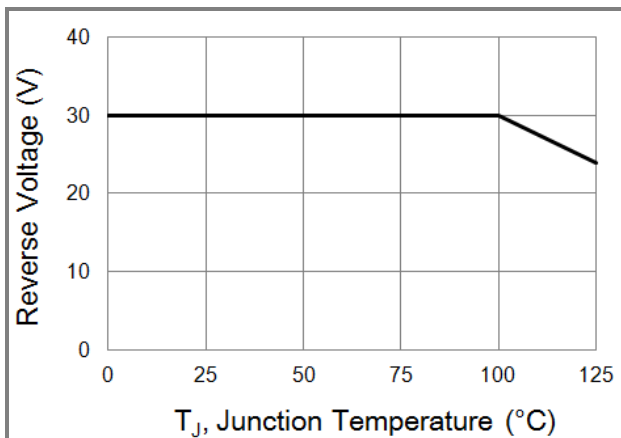


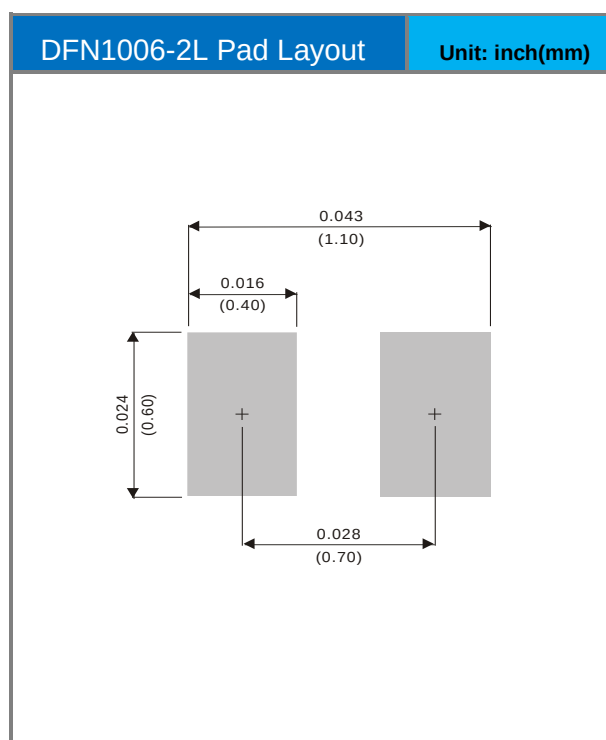
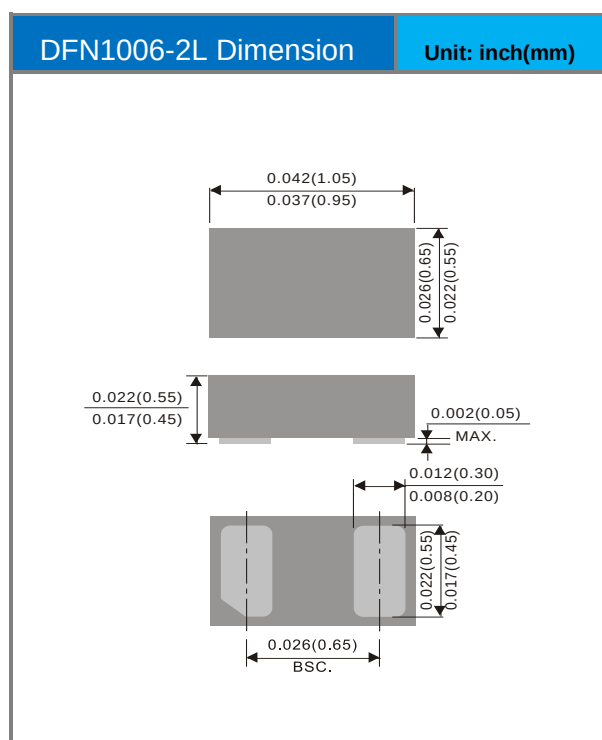
Fig.5 Operating Temperature Derating Curve

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Product and Packing Information

Part No.	Package Type	Packing Type	Marking	Version
BAT54FN2	DFN1006-2L	10K pcs / 7" Reel	BN	Halogen free RoHS compliant

Packaging Information & Mounting Pad Layout





BAT54FN2

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