



1SS417FN2

Surface Mount Schottky Barrier

Voltage

40 V

Current

100 mA

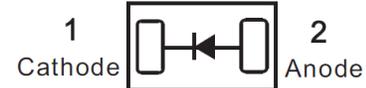
Features

- Small package
- Low forward voltage : $V_{F(3)}=0.51V(\text{Typ.})$
- Low reverse current : $I_R=5\mu A(\text{Max.})$
- 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
Maximum (Peak) Reverse Voltage	V _{RM}	45	V
Peak Reverse Voltage	V _R	40	V
Maximum (Peak) Forward Current	I _{FM}	200	mA
Average Forward Current	I _O	100	mA
Surge Current (10ms)	I _{FSM}	1	A
Power Dissipation	P _D	100	mW
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 _{F1}	I _F = 1 mA	-	0.26	-	V
	V _{F2}	I _F = 10 mA	-	0.34	-	
	V _{F3}	I _F = 100 mA	-	0.51	0.62	
Reverse Current	I _R	V _R = 40 V	-	-	5	uA
Junction Capacitance	C _J	V _R = 0 V, f = 1 MHz	-	10	-	pF



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TYPICAL CHARACTERISTIC CURVES

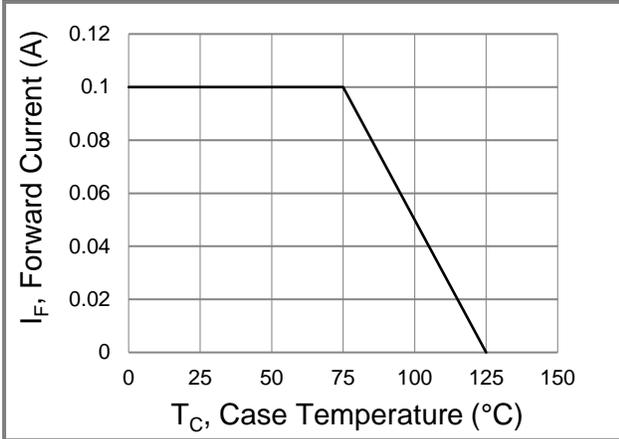


Fig.1 Forward Current Derating Curve

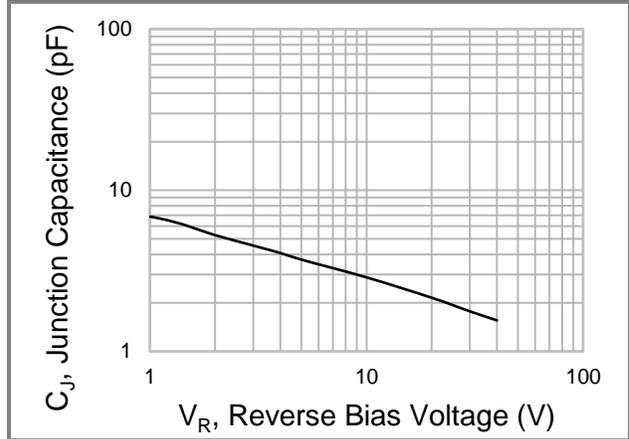


Fig.2 Typical Junction Capacitance

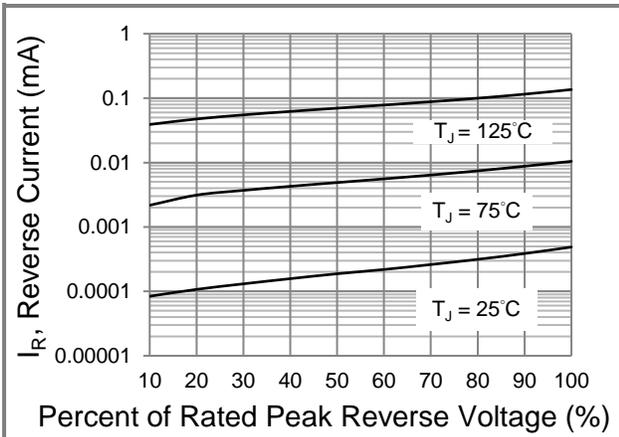


Fig.3 Typical Reverse Characteristics

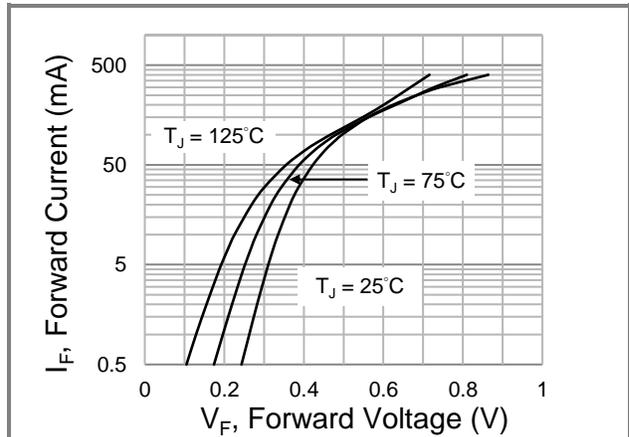


Fig.4 Typical Forward Characteristics

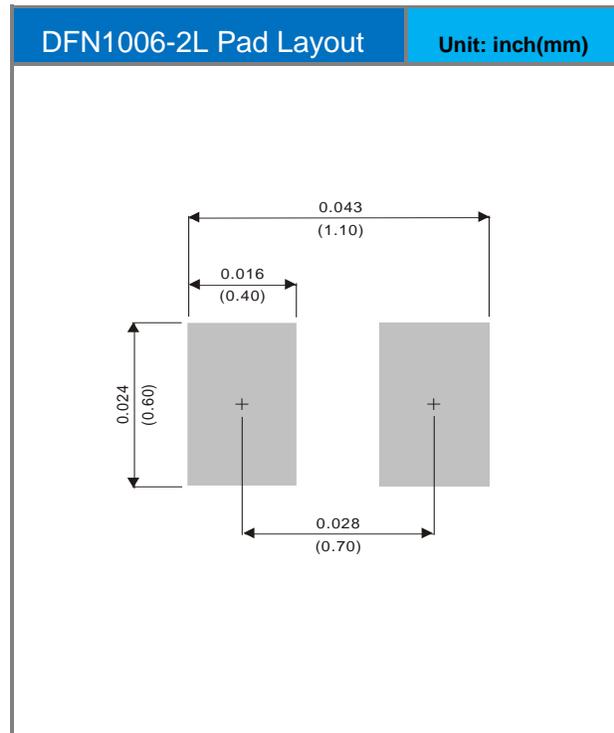
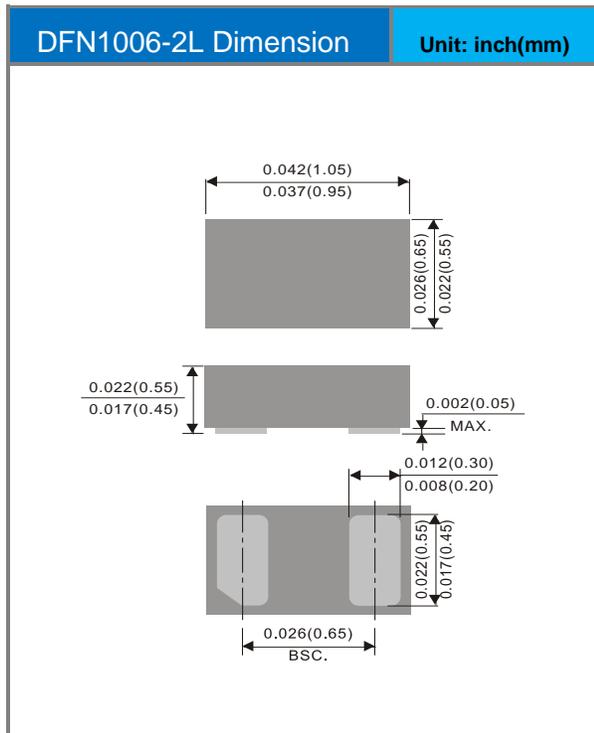


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Product and Packing Information

Part No.	Package Type	Packing Type	Marking	Version
1SS417FN2	DFN1006-2L	10K pcs / 7" Reel	7F	Halogen free RoHS compliant

Packaging Information & Mounting Pad Layout





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