



1SS417FN2

SURFACE MOUNT SCHOTTKY BARRIER

Voltage

40 V

Current

100 mA

DFN 2L

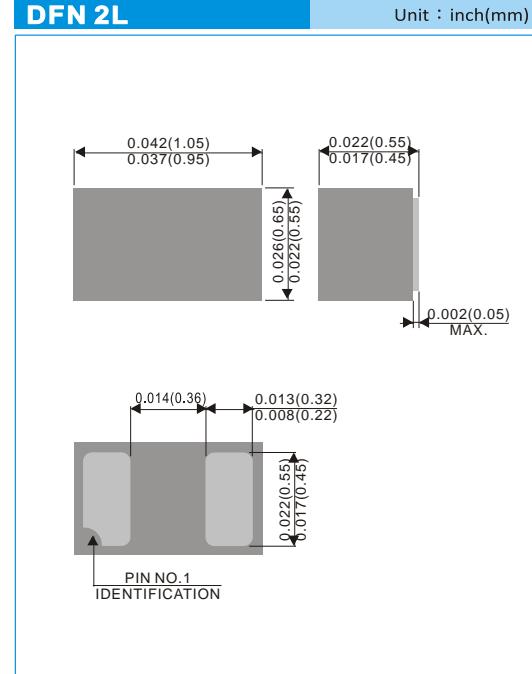
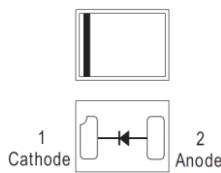
Unit : inch(mm)

Features

- Small package
- Low forward voltage : $V_{F(3)}=0.51V$ (typ.)
- Low reverse current : $I_R=5\mu A$ (Max.)
- 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 case
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00004 ounces, 0.0011 grams
- Marking:7F



MAXIMUM RATINGS ($T_A=25^\circ C$)

PARAMETER	SYMBOL	VALUE	UNIT
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 and storage temperature range	T_J, T_{STG}	-55 to +125	°C



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ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP	MAX.	UNIT
Forward voltage	V_F1	$I_F=1\text{mA}$	-	0.26	-	V
	V_F2	$I_F=10\text{mA}$	-	0.34	-	
	V_F3	$I_F=100\text{mA}$	-	0.51	0.62	
Reverse current	I_R	$V_R=40\text{V}$	-	-	5	μA
Junction capacitance	C_J	$V_R=0\text{V}, f=1\text{MHz}$	-	10	-	pF

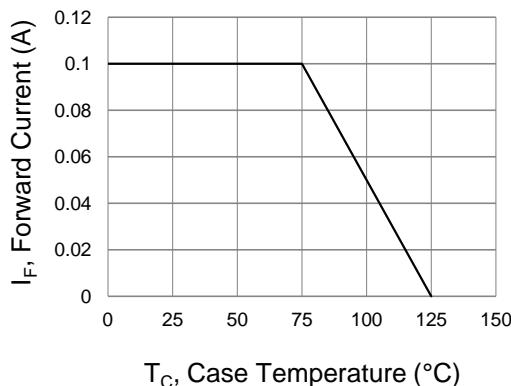


Fig.1 Forward Current Derating Curve

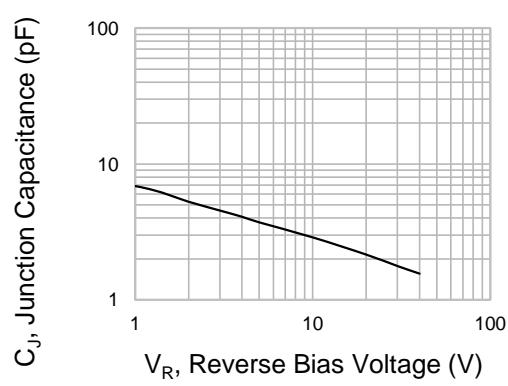


Fig.2 Typical Junction Capacitance

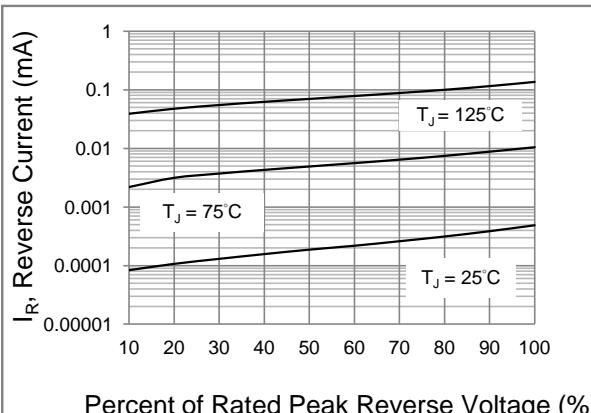


Fig.3 Typical Reverse Characteristics

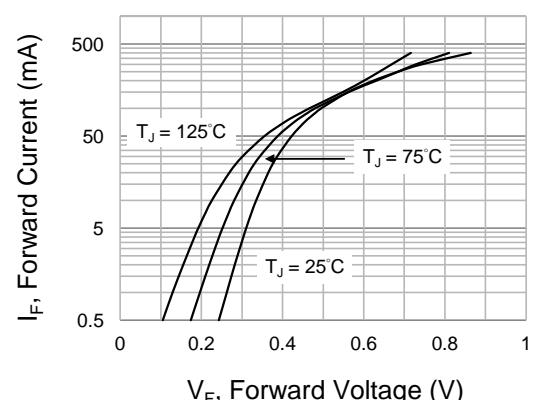


Fig.4 Typical Forward Characteristics

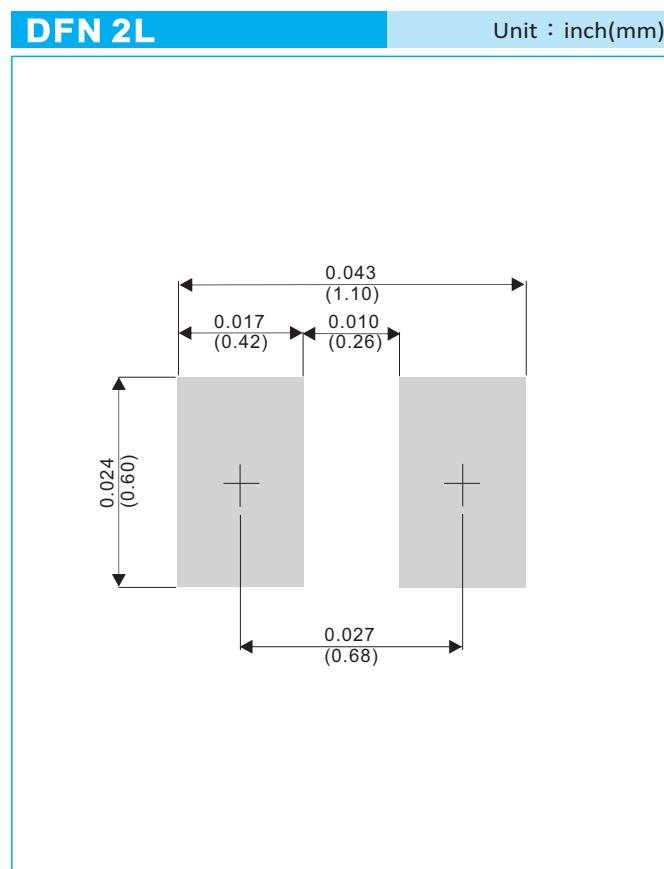


1SS417FN2

PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing Type	Marking	Version
1SS417FN2_R1_00001	DFN 2L	8K pcs / 7" reel	7F	Halogen free

MOUNTING PAD LAYOUT





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