



1SS417FN2

SURFACE MOUNT SCHOTTKY BARRIER

Voltage

40 V

Current

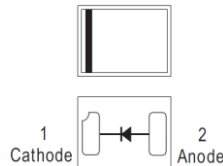
100 mA

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 RoHS2.0
(2011/65/EU & 2015/865/EU directive)
- Green molding compound as per IEC61249 Std..(Halogen Free)

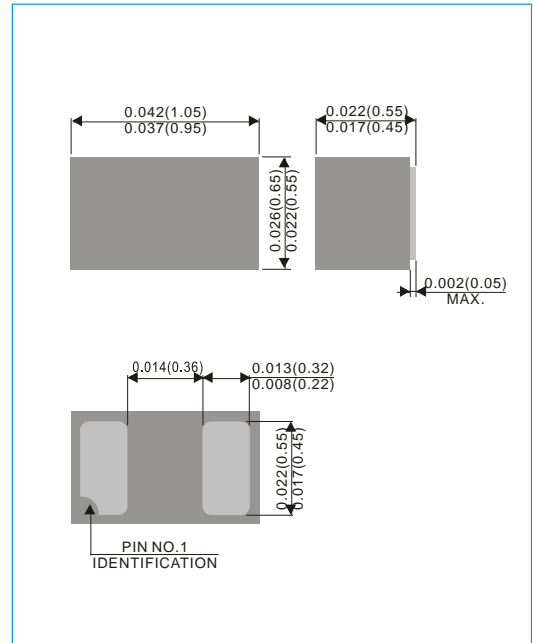
Mechanical Data

- Case: DFN 2L plastic case
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00004 ounces, 0.0011 grams
- Marking: 7F



DFN 2L

Unit : inch(mm)



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	$^\circ C$



1SS417FN2

ELECTRICAL CHARACTERISTICS (T_A=25°C)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward voltage	V _{F1}	I _F =1mA	-	0.26	-	V
	V _{F2}	I _F =10mA	-	0.34	-	
	V _{F3}	I _F =100mA	-	0.51	0.62	
Reverse current	I _R	V _R =40V	-	-	5	μA
Junction capacitance	C _J	V _R =0V, f=1MHz	-	10	-	pF

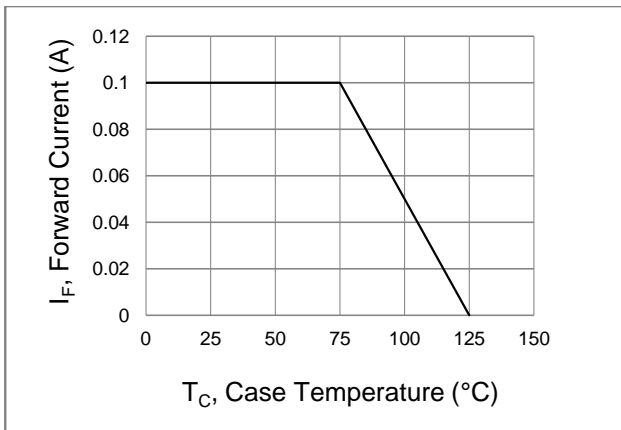


Fig.1 Forward Current Derating Curve

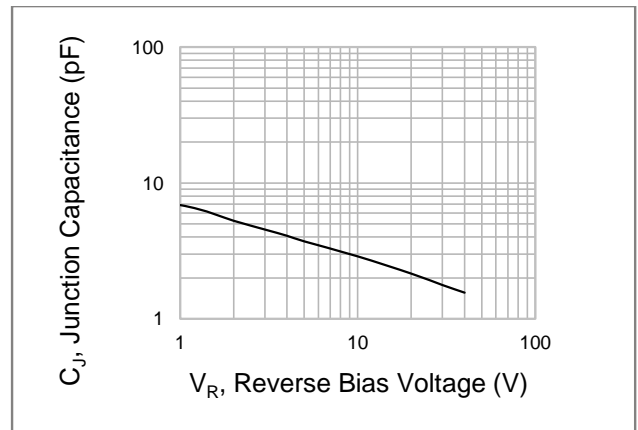


Fig.2 Typical Junction Capacitance

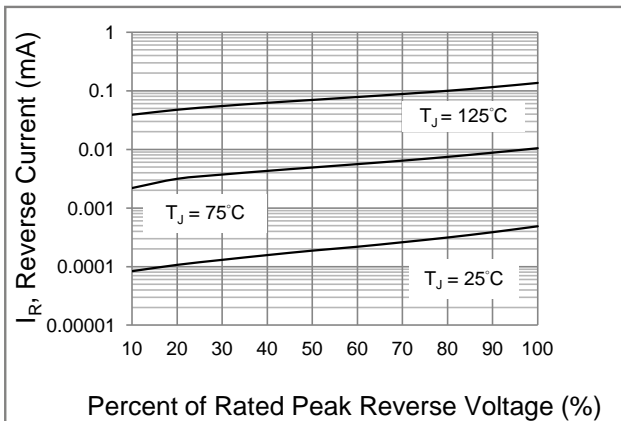


Fig.3 Typical Reverse Characteristics

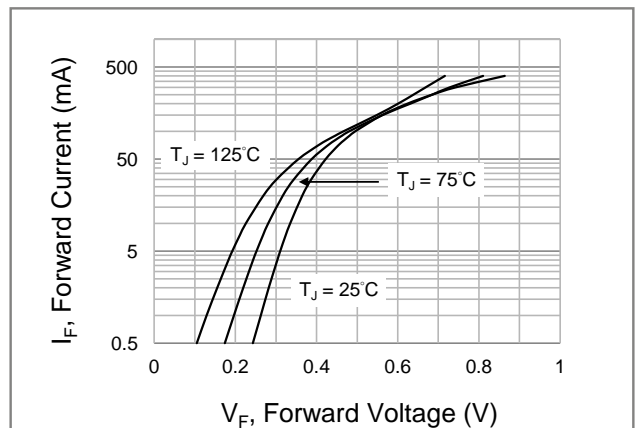


Fig.4 Typical Forward Characteristics

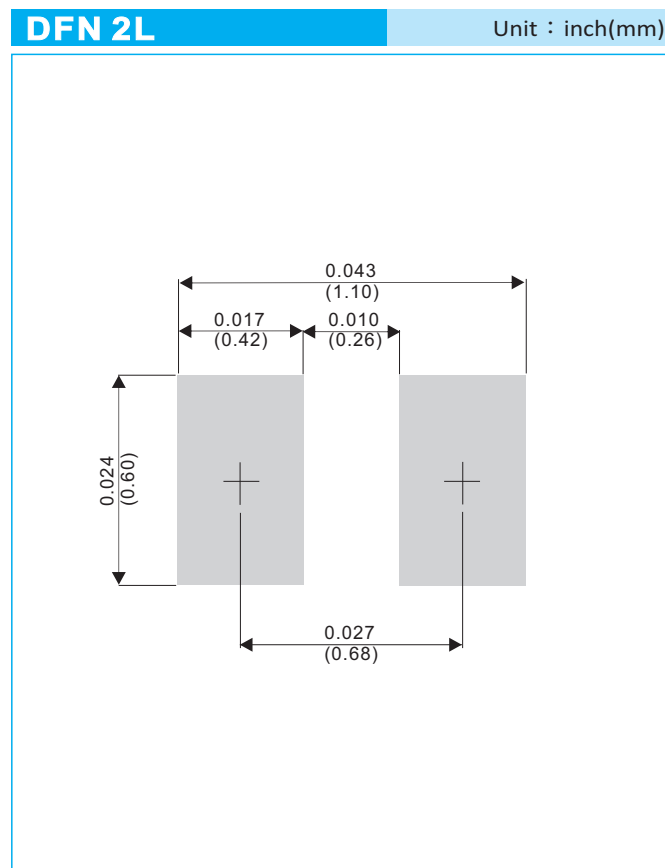


1SS417FN2

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





1SS417FN2

Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.