

1SS417FN2

SURFACE MOUNT SCHOTTKY BARRIER

Voltage

40 V

Current

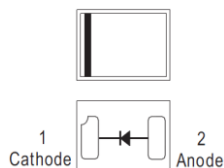
100 mA

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 2011/65/EU directive
- Green molding compound as per IEC61249 Std..
(Halogen Free)

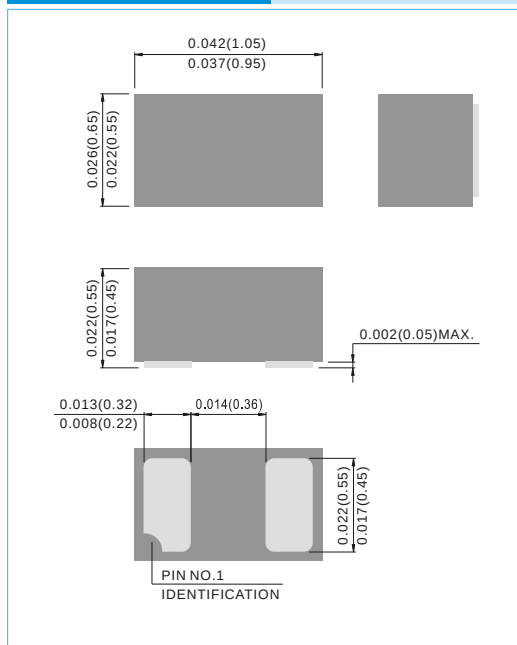
Mechanical Data

- 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	$^{\circ}C$

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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

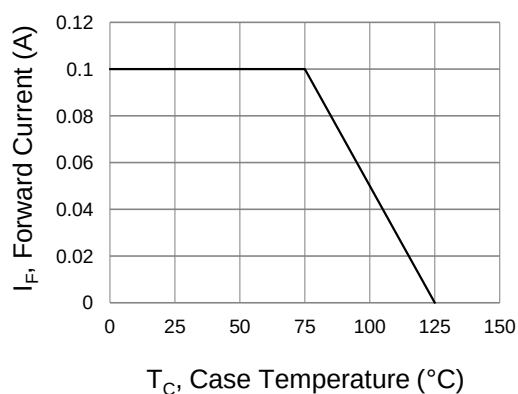


Fig.1 Forward Current Derating Curve

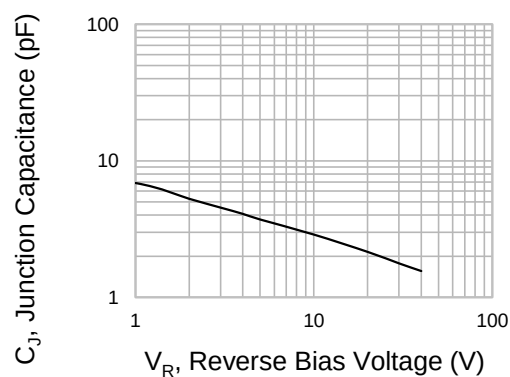


Fig.2 Typical Junction Capacitance

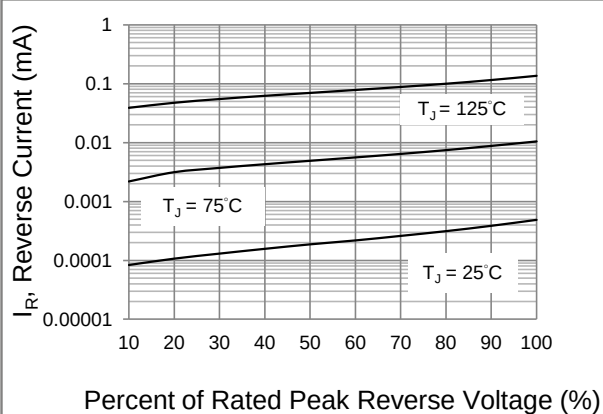


Fig.3 Typical Reverse Characteristics

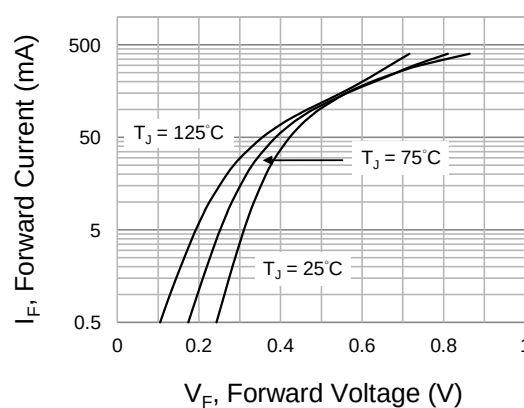
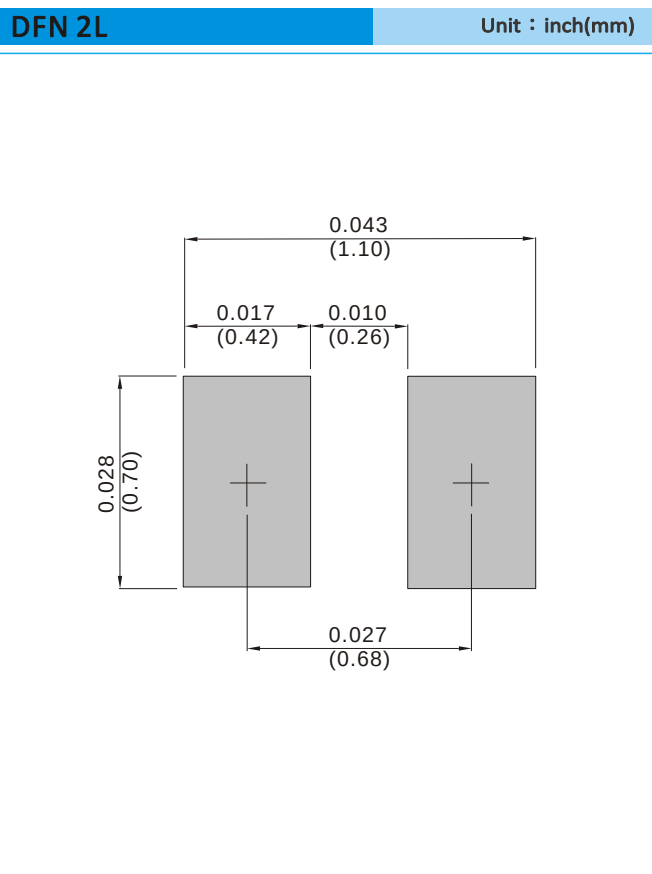


Fig.4 Typical Forward Characteristics

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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
T/R –8K per 7" plastic Reel

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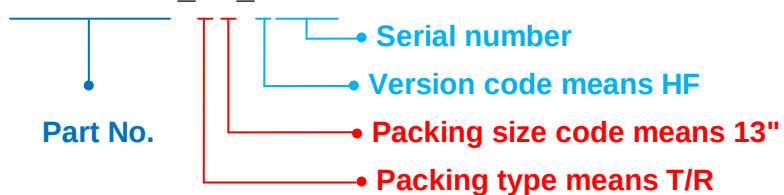
Part No_packing code_Version

1SS417FN2_R1_00001

1SS417FN2_R2_00001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



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