



1SS387FN2

SURFACE MOUNT SWITCHING DIODES

VOLTAGE 80 Volt **POWER** 300mWatt

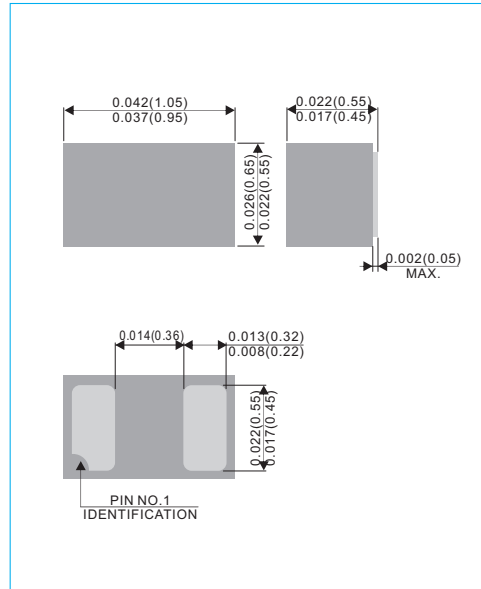
DFN 2L Unit : inch(mm)

FEATURES

- Fast switching Speed.
- Electrically Identical to Standard JEDEC
- Surface Mount Package Ideally Suited for Automatic Insertion.
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- Case : DFN 2L plastic case.
- Terminals : Solderable per MIL-STD-750, Method 2026
- Weight : 0.00004 ounces, 0.0011grams
- Marking Code : BZ
- Polarity : Color band denotes cathode end



ABSOLUTE RATINGS (T_A = 25°C, unless otherwise noted)

PARAMETER	SYMBOL	1SS387FN2	UNITS
Reverse Voltage	V _R	80	V
Peak Reverse Voltage	V _{RRM}	85	V
Maximum DC Blocking Voltage	V _{DC}	80	V
Maximum Average Forward Current at T _A = 25 °C	I _{F(AV)}	150	mA
Peak Forward Surge Current, @ 8.33ms AC Half Wave @ 10ms AC Half Wave	I _{FSM}	2.5 2.3	A
Power Dissipation Derate Above 25 °C	P _D	300	mW
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	1SS387FN2	UNITS
Typical Thermal Resistance	R _{θJA}	400	°C / W



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ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$, unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TPY	MAX	UNITS
Maximum Forward Voltage	V_F	$I_F=1\text{mA}$ $I_F=10\text{mA}$ $I_F=100\text{mA}$	-	0.62 0.75 0.98	0.715 0.855 1.2	V
Reverse Leakage Current	I_R	$V_R=30\text{V}$ $V_R=80\text{V}$	-		0.1 0.5	μA
Maximum Total Capacitance	C_T	$V_R=0\text{V}$, $f=1\text{MHz}$	-	0.5		pF
Maximum Reverse Recovery Time	t_{rr}	$I_F=10\text{mA}$, $I_R=1\text{mA}$ $V_R=6\text{V}$, $R_L=100\Omega$	-	1.6		ns

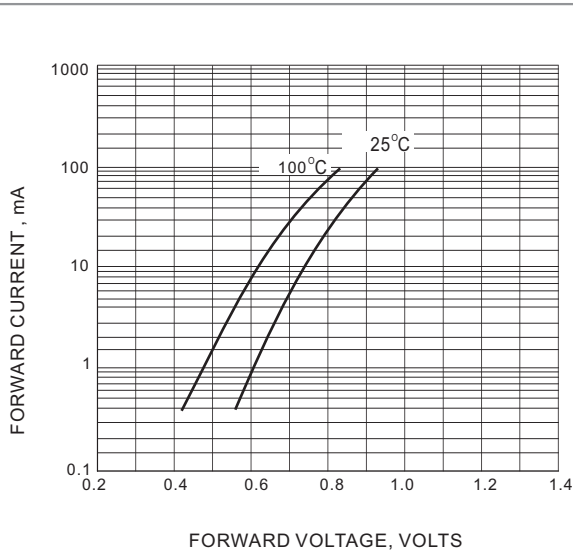


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

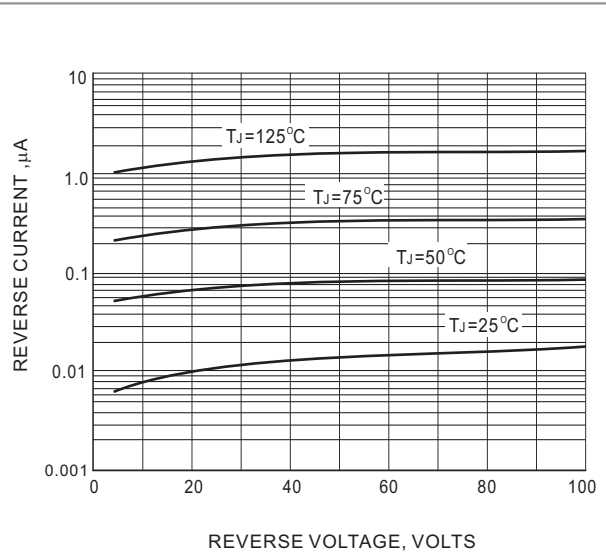


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

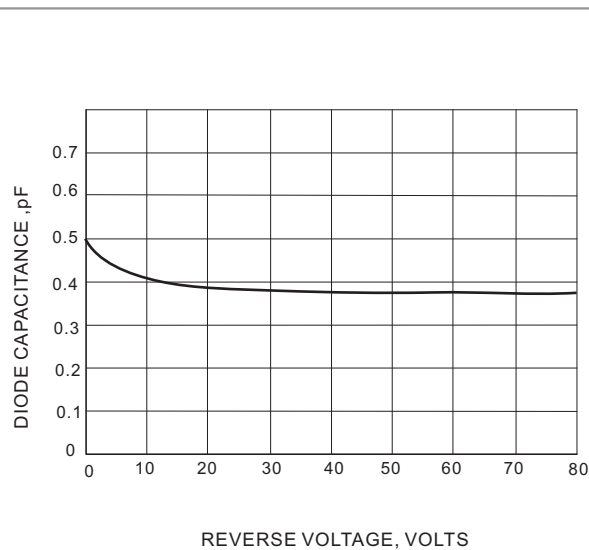


FIG. 3 TYPICAL JUNCTION CAPACITANCE

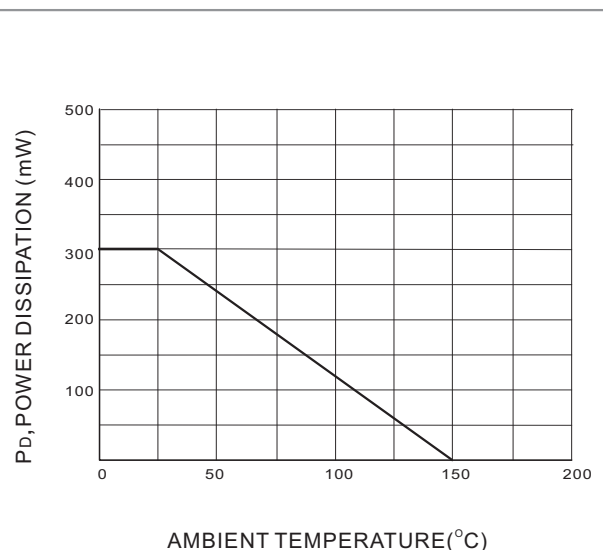


FIG. 4 POWER DERATING CURVE

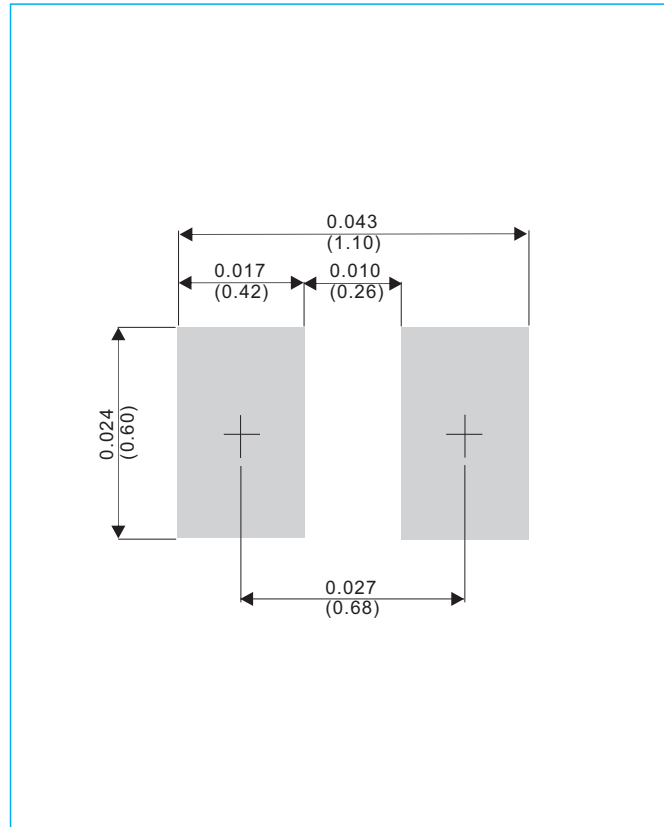


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MOUNTING PAD LAYOUT

DFN 2L

Unit : inch(mm)



ORDER INFORMATION

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



1SS387FN2

Part No_packing code_Version

1SS387FN2_R1_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			