



# 1SS387FN2

## SURFACE MOUNT SWITCHING DIODES

**VOLTAGE** 80 Volts **POWER** 200mWatts

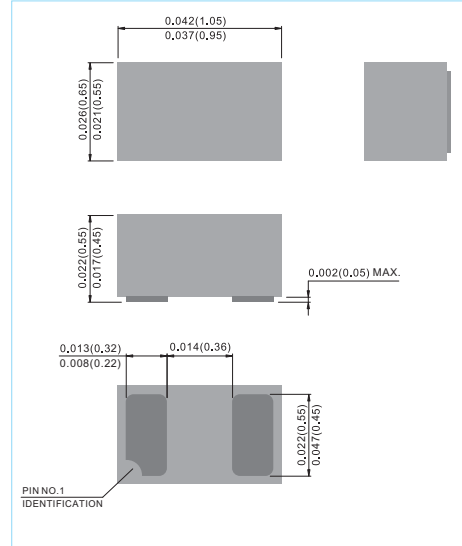
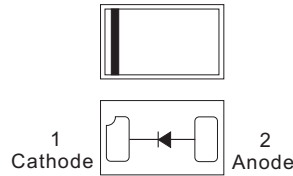
**DFN 2L** Unit : inch(mm)

### FEATURES

- Fast switching Speed.
- Electrically Identical to Standard JEDEC
- Surface Mount Package Ideally Suited for Automatic Insertion.
- In compliance with EU RoHS 2002/95/EC directives

### MECHANICAL DATA

- Case : DFN 2L plastic case.
- Terminals : Solderable per MIL-STD-750, Method 2026
- Marking Code : BZ
- Polarity : Color band cathode



### ABSOLUTE RATINGS (T<sub>A</sub> = 25°C, unless otherwise noted)

PARAMETER	SYMBOL	1SS387FN2	UNITS
Reverse Voltage	V <sub>R</sub>	80	V
Peak Reverse Voltage	V <sub>RPM</sub>	85	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	80	V
Maximum Average Forward Current at T <sub>A</sub> = 25 °C	I <sub>F(AV)</sub>	150	mA
Peak Forward Surge Current, @ 8.33ms AC Half Wave @ 10ms AC Half Wave	I <sub>FSM</sub>	2.5 2.3	A
Power Dissipation Derate Above 25 °C	P <sub>D</sub>	300	mW
Operating Junction and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150	°C

### THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	1SS387FN2	UNITS
Typical Thermal Resistance	R <sub>θJA</sub>	400	°C / W



# 1SS387FN2

## 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	$\mu\text{A}$
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

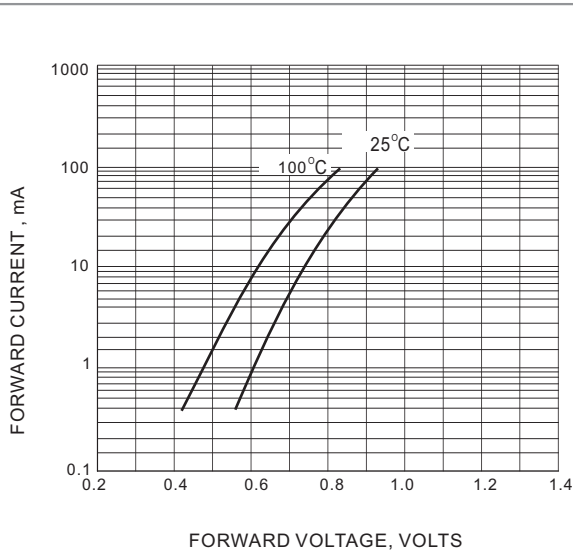


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

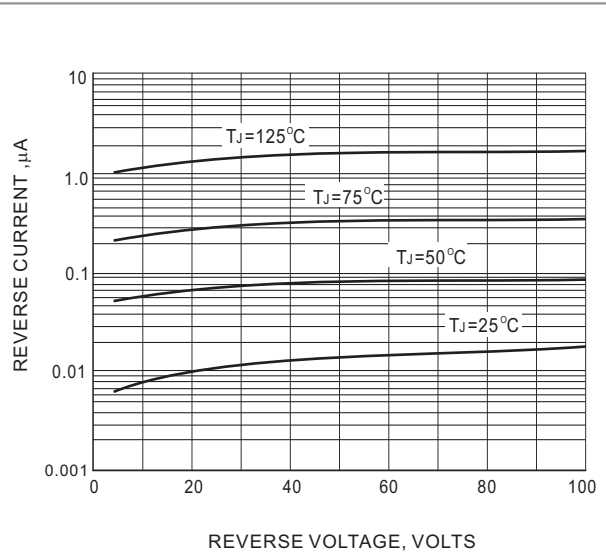


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

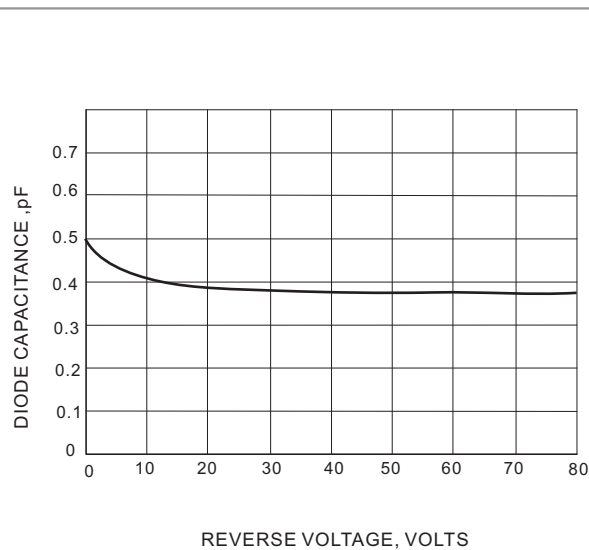


FIG. 3 TYPICAL JUNCTION CAPACITANCE

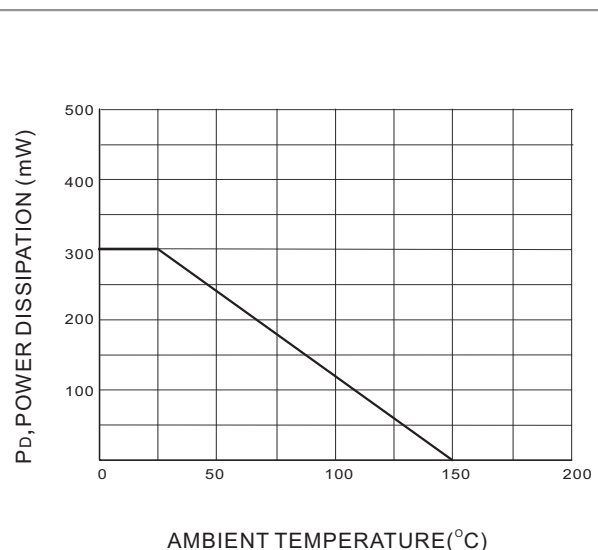
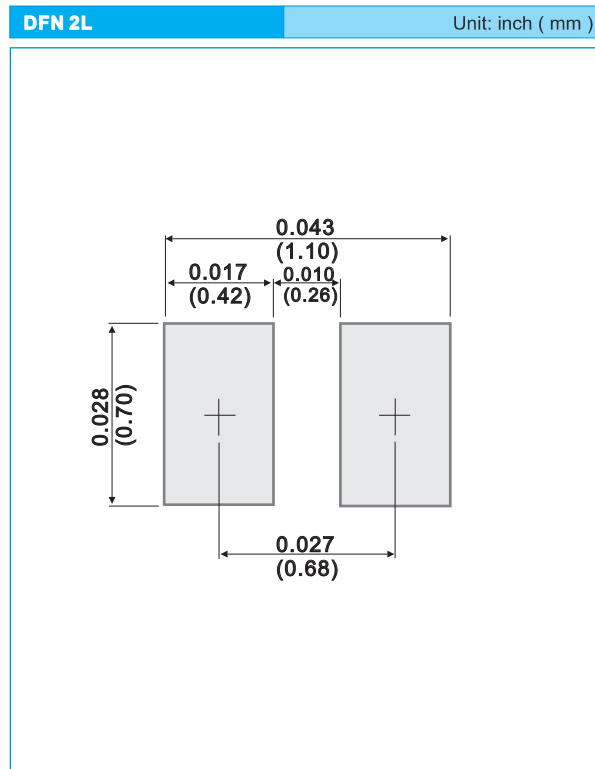


FIG. 4 POWER DERATING CURVE



# 1SS387FN2

## MOUNTING PAD LAYOUT



## ORDER INFORMATION

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

## LEGAL STATEMENT

### Copyright PanJit International, Inc 2010

The information presented in this document is believed to be accurate and reliable. The specifications and information herein are subject to change without notice. Pan Jit makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose. Pan Jit products are not authorized for use in life support devices or systems. Pan Jit does not convey any license under its patent rights or rights of others.