

1SS387FN2

Surface Mount Switching Diodes

Voltage 80 V **Current** 150 mA

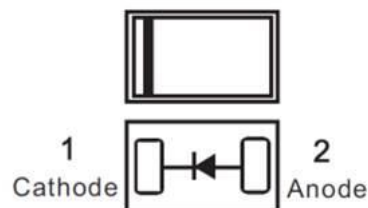
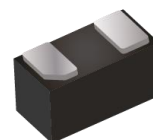
Features

- 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 : DFN1006-2L Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0006 grams

DFN1006-2L



Maximum Ratings and Thermal Characteristics (T_A = 25°C unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	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
Typical Thermal Resistance		R _{θJA}	400	°C/W
Operating Junction Temperature Range		T _J	-55~150	°C
Storage Temperature Range		T _{STG}	-55~150	°C

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Electrical Characteristics ($T_A = 25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V_F	$I_F = 1 \text{ mA}$	-	0.62	0.715	V
		$I_F = 10 \text{ mA}$	-	0.75	0.855	
		$I_F = 100 \text{ mA}$	-	0.98	1.2	
Reverse Leakage Current	I_R	$V_R = 30 \text{ V}$	-	-	0.1	μA
		$V_R = 80 \text{ V}$	-	-	0.5	μA
Total Capacitance	C_T	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$	-	0.5	-	pF
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

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TYPICAL CHARACTERISTIC CURVES

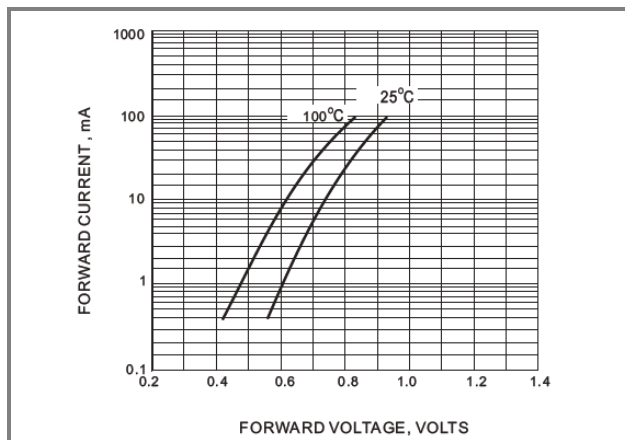


Fig.1 Typical Forward Characteristic

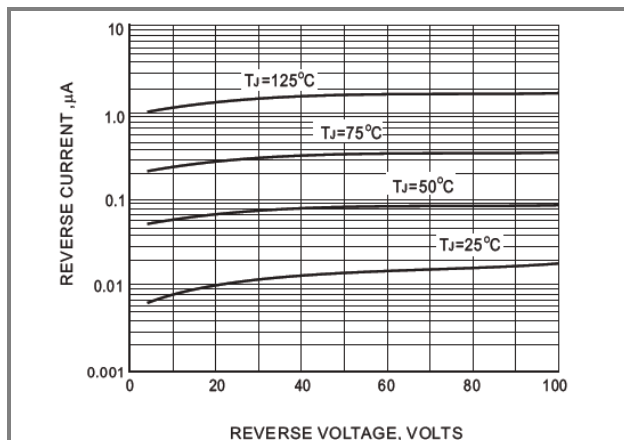


Fig.2 Typical Reverse Characteristics

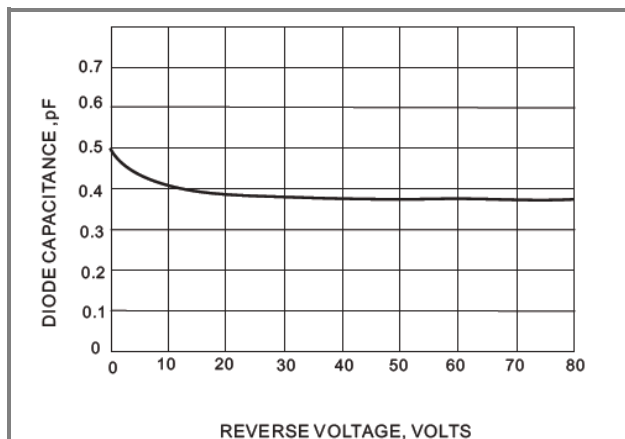


Fig.3 Typical Junction Capacitance

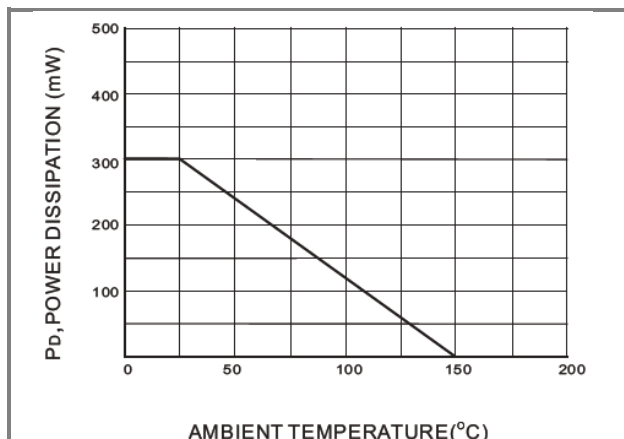


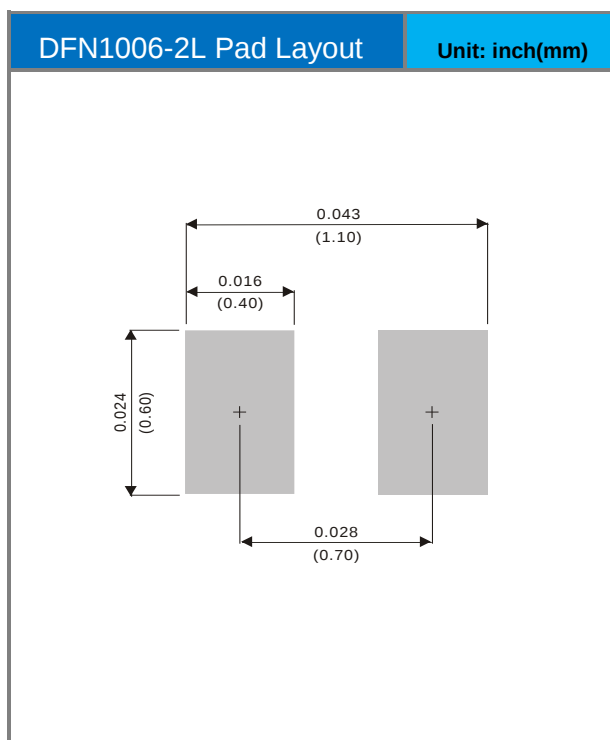
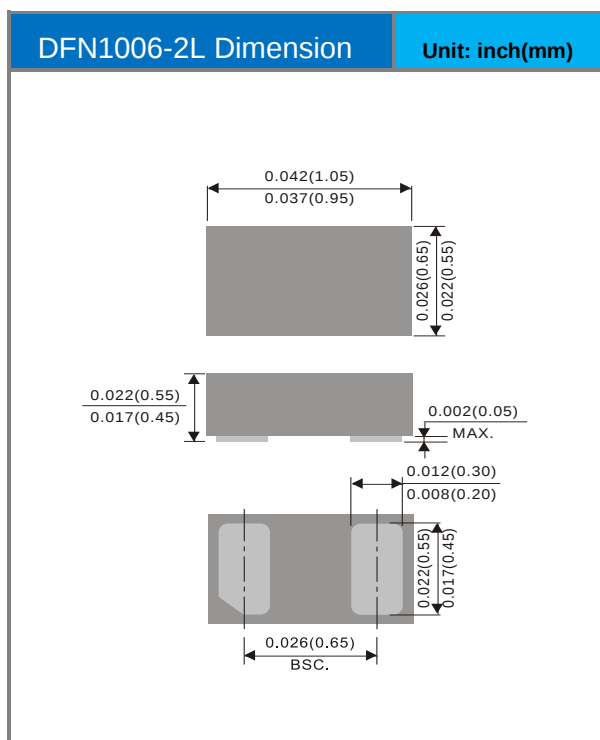
Fig.4 Power Derating Curve

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Product and Packing Information

Part No.	Package Type	Packing Type	Marking
1SS387FN2	DFN1006-2L	10K pcs / 7" reel	BZ

Packaging Information & Mounting Pad Layout



1SS387FN2

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