

## Features

- Low current rectification
- Low forward voltage



DFN1006

## Mechanical Data

- Case: DFN1006
- Terminals: solderable per MIL-STD-202, Method 208



Schematic Diagram

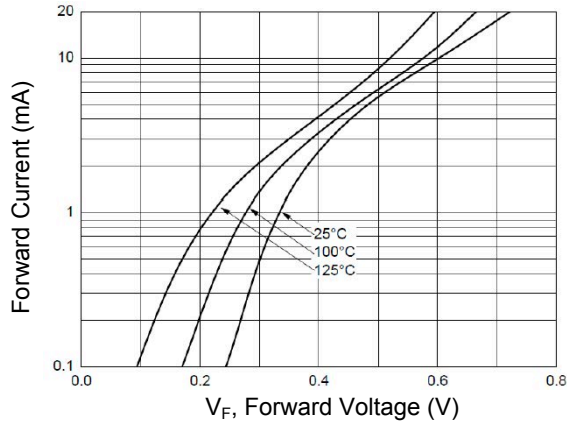
## Absolute Maximum Ratings (T<sub>A</sub>=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Power Dissipation	P <sub>D</sub>	200	mW
Reverse Voltage	V <sub>R</sub>	70	V
Average Forward Current	I <sub>F(AV)</sub>	70	mA
Non-Repetitive Peak Forward Current (t=1s)	I <sub>FSM</sub>	100	mA
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature	T <sub>STG</sub>	-65 to +150	°C

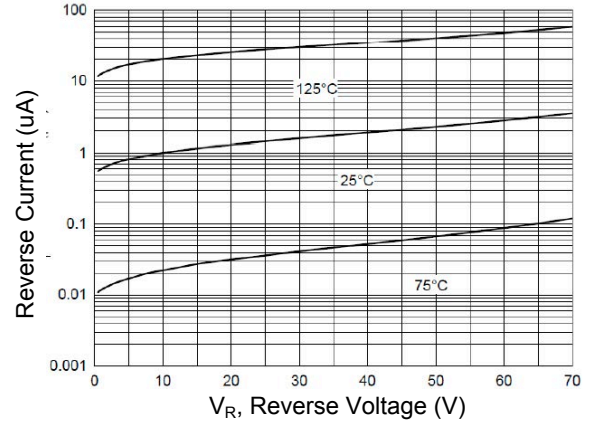
## Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise specified)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse Leakage Current	I <sub>R</sub>	V <sub>R</sub> =50V	-	0.01	0.2	uA
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =1mA	-	-	0.41	V
		I <sub>F</sub> =15mA	-	-	1	V
Reverse Voltage	V <sub>R</sub>	I <sub>R</sub> =10uA	70	-	-	V
Typical Junction Capacitance	C <sub>J</sub>	V <sub>R</sub> =0V, F=1.0MHz	-	-	2	pF
Reverse Recovery Time	T <sub>RR</sub>	I <sub>F</sub> =I <sub>R</sub> =10mA, I <sub>RR</sub> =1mA, R <sub>L</sub> =100Ω	-	-	5	ns

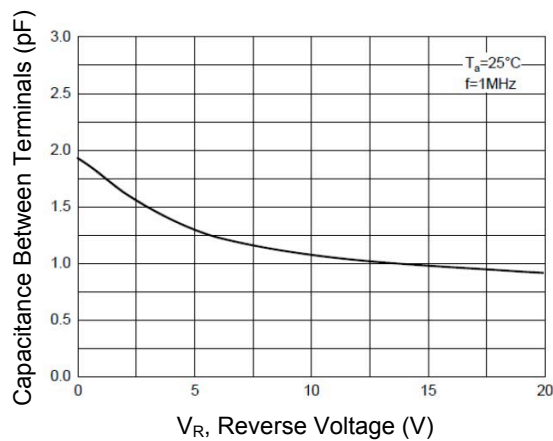
**Typical Characteristic Curves**



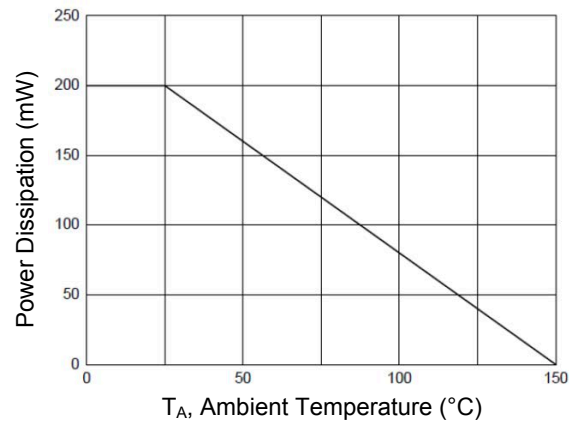
**Figure 1. Forward Characteristics**



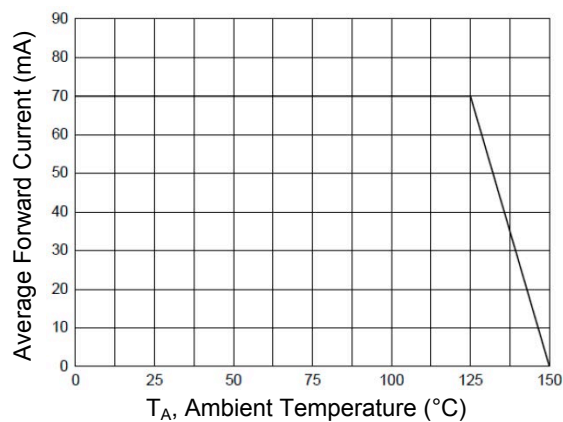
**Figure 2. Reverse Characteristics**



**Figure 3. Capacitance Characteristics**

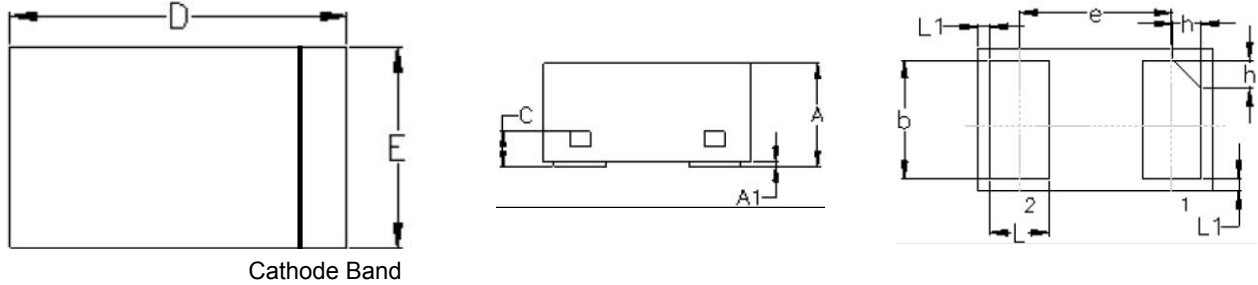


**Figure 4. Power Derating Curve**



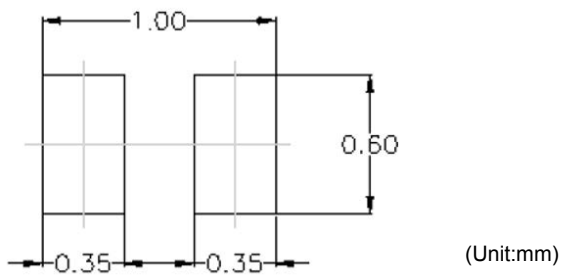
**Figure 5. Current Derating Curve**

**Package Outline Dimension (DFN1006)**



Symbol	Dimensions in Millimeters		
	Min	Nom	Max
A	0.45	0.50	0.55
A1	0.00	0.02	0.05
b	0.45	0.50	0.55
C	0.12	0.15	0.18
D	0.95	1.00	1.05
e	0.65 BSC		
E	0.55	0.60	0.65
L	0.20	0.25	0.30
L1	0.05 REF.		
h	0.07	0.12	0.17

**Recommended Pad Layout**



**Order Information**

Device	Package	Marking	Carrier	Quantity
GSBAS70LP	DFN1006	S5.	Tape & Reel	10,000 pcs / Reel