

Features

- Ultra small mold type
- High reliability
- Super low V_F
- RoHS compliant with Halogen-free

HF

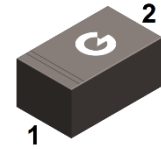


Application

- Small current rectification

Mechanical Data

- Case: DFN1006-2
- Molding Compound: UL Flammability Classification Rating 94V-0
- Terminals: Matte tin-plated leads; solderability-per MIL-STD-202, Method 208



DFN1006-2

Ordering Information

Part Number	Package	Shipping Quantity	Marking Code
RB521L-60	DFN1006-2	10000pcs / Tape & Reel	2

Maximum Ratings (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	60	V
DC Reverse Voltage	V_R	60	V
Maximum Average Forward Output Current	$I_{F(AV)}$	0.2	A
Peak Forward Surge Current (8.3ms single half sine-wave)	I_{FSM}	1	A

Thermal Characteristics

Parameter	Symbol	Value	Unit
Power Dissipation	P_D	100	mW
Thermal Resistance Junction-to-Air	$R_{\theta JA}$	1000	$^\circ\text{C/W}$
Thermal Resistance Junction-to-Case	$R_{\theta JC}$	987	$^\circ\text{C/W}$
Thermal Resistance Junction-to-Lead	$R_{\theta JL}$	631	$^\circ\text{C/W}$
Operating junction Temperature	T_J	-40 ~ +125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-40 ~ +125	$^\circ\text{C}$

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

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R = 100\mu\text{A}$	60	-	-	V
Forward Voltage	V_F	$I_F = 0.2\text{A}$	-	-	0.6	V
Maximum Peak Reverse Current	I_R	$V_R = 60\text{V}$	-	-	100	μA
Typical Junction Capacitance	C_J	$V_R = 4\text{V}, f = 1\text{MHz}$	-	19	-	pF

Ratings and Characteristic Curves (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

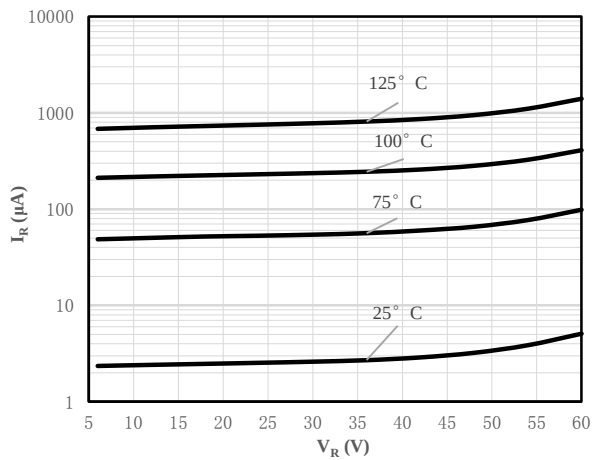


Fig 1 Typical Reverse Characteristic

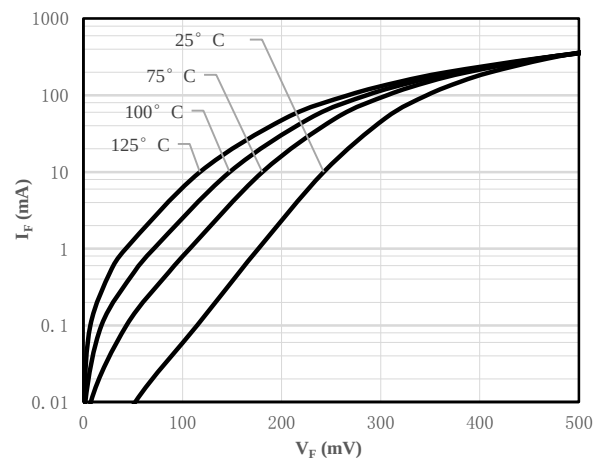


Fig 2 Typical Forward Characteristic

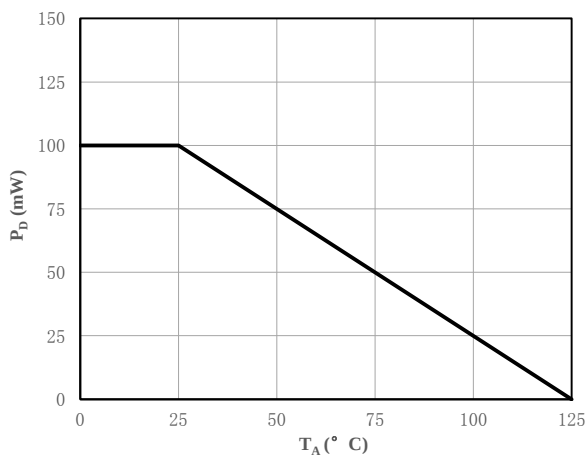


Fig 3 Current Derating Curve

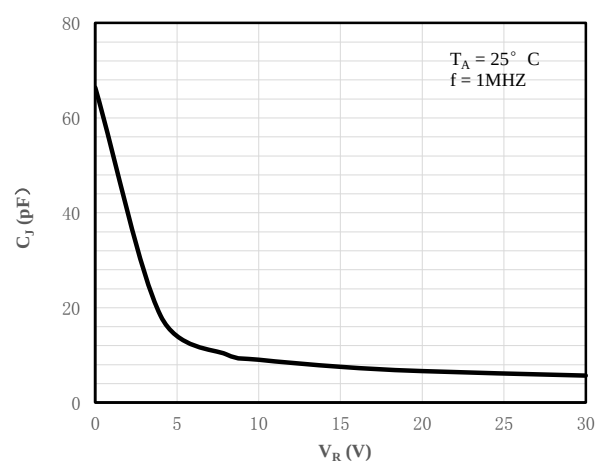
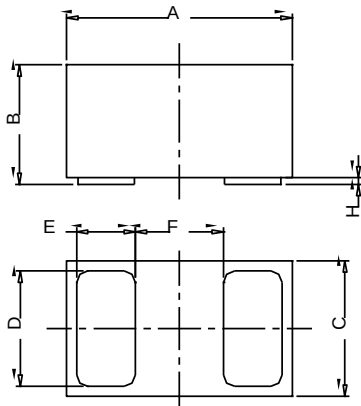


Fig 4 Capacitance vs. Reverse Voltage

Package Outline Dimensions (Unit: mm)



DFN1006-2			
Dimension	Min.	Typ.	Max.
A	0.95	1.00	1.075
B	0.45	0.50	0.55
C	0.55	0.60	0.675
D	0.45	0.50	0.55
E	0.20	0.25	0.30
F	-	0.40	-
H	0	0.03	0.05

Package Outline Dimensions (Unit: mm)

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