

DFN1006-2

Features:

- Low Turn-on Voltage
- Fast Switching
- Ultra-small Surface Mount Package
- PN Junction Guard Ring for Transient and ESD Protection

Applications:

- Schottky Barrier Detector and Switching Diodes

Maximum Ratings:

Ratings at 25°C unless otherwise specified.

Characteristic	Symbol	Value	Unit
Repetitive peak reverse voltage	V_R	30	V
Forward continuous current	I_F	200	mA
Repetitive peak forward current	I_{FRM}	300	mA
Forward surge current at $t < 1s$	I_{FSM}	600	mA
Power dissipation	P_D	200	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	650	°C/W
Operating and storage temperature range	T_j, T_{STG}	-65 to +125	°C

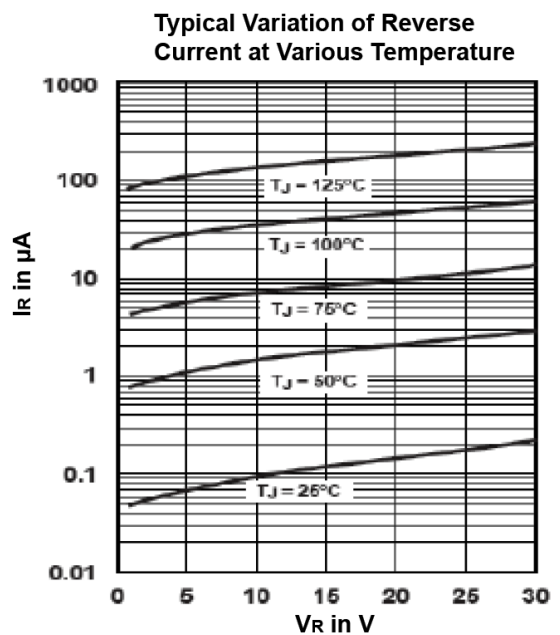
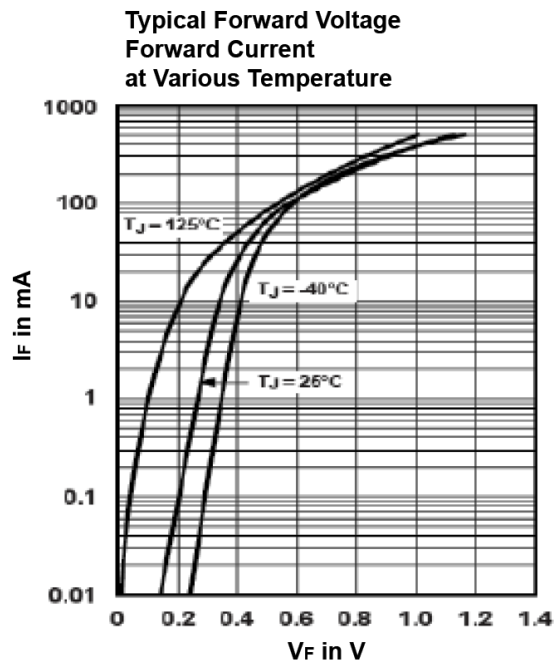
Electrical Characteristics:

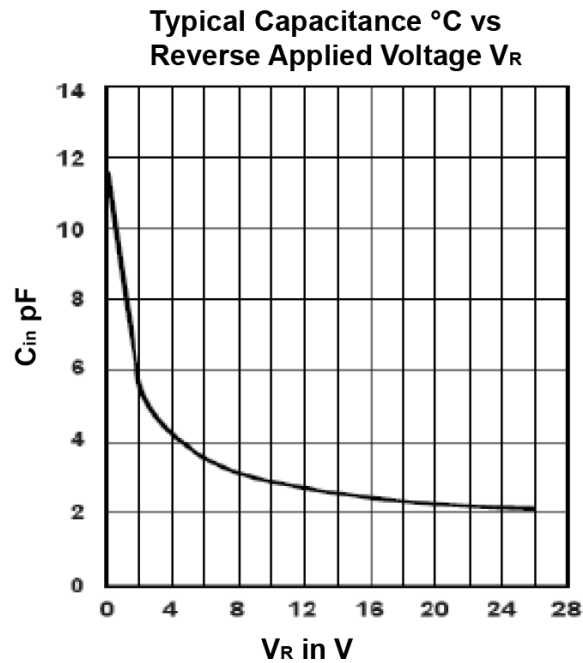
Ratings at 25°C unless otherwise specified

Characteristic	Symbol	Min.	Max.	Unit	Test Condition
Reverse breakdown voltage	$V_{(BR)R}$	30	-	V	$I_R=100\mu A$
Forward voltage	V_F		0.24 0.32 0.4 0.5 1	V	$I_F=0.1mA$ $I_F=1mA$ $I_F=10mA$ $I_F=30mA$ $I_F=100mA$
Reverse current	I_R		2	μA	$V_R=25V$
Junction capacitance	C_J		10	pF	$V_R=1V, f=1MHz$
Reverse recovery time	t_{rr}	-	5	ns	$I_F=I_R=10mA, I_{rr}=0.1 \times I_R, R_L=100\Omega$

Typical Characteristics:

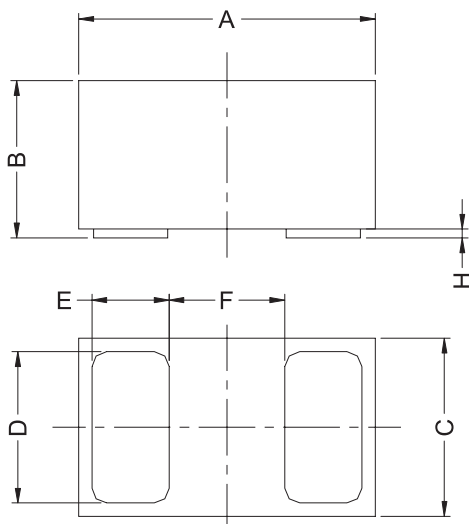
$T_A = 25^\circ C$ unless otherwise specified





Package Outline:

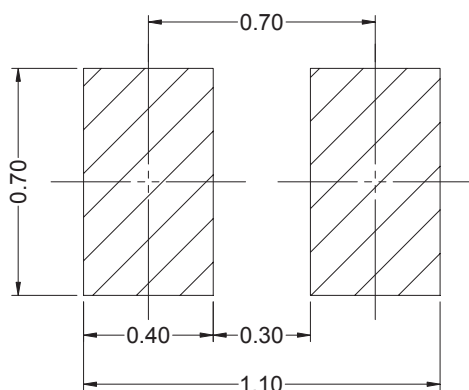
Plastic surface mounted package



DFN1006-2			
Dim.	Min.	Typ.	Max.
A	0.95	1	1.075
B	0.47	0.5	0.53
C	0.55	0.6	0.675
D	0.45	0.5	0.55
E	0.2	0.25	0.3
F	-	0.4	-
H	0	0.03	0.05

Dimensions : Millimetres

Soldering Footprint:



Dimensions : Millimetres

Package Information:

Device	Package	Shipping
BAT54LP-7	DFN1006-2	5,000 / Tape & Reel

Part Number Table

Description	Part Number
Schottky Barrier Diode	BAT54LP-7

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