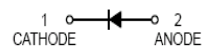
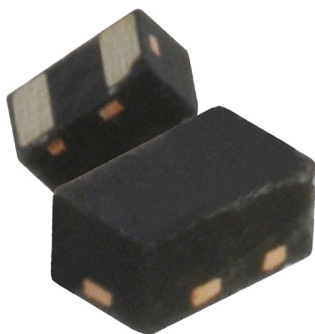


# Schottky Barrier Diode



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



# Schottky Barrier Diode



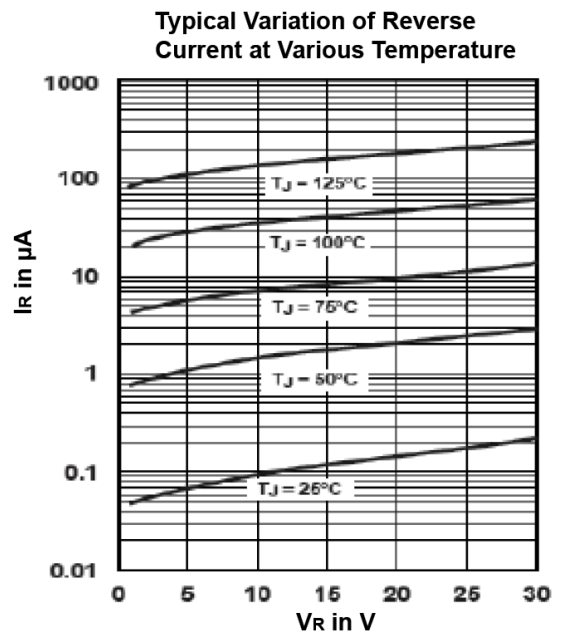
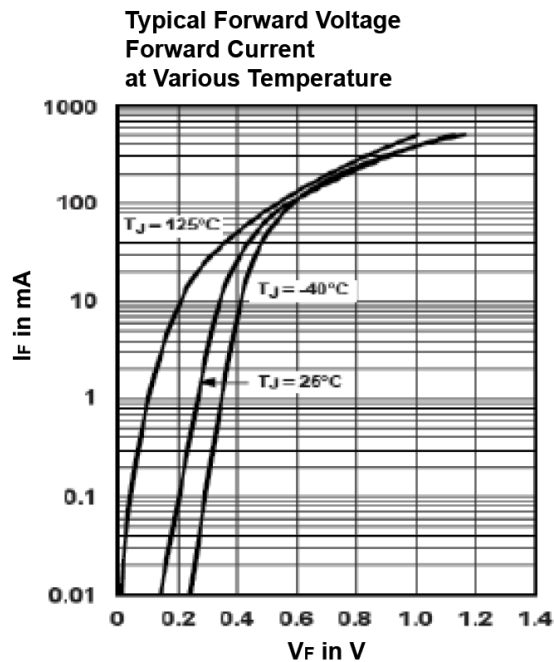
## Electrical Characteristics:

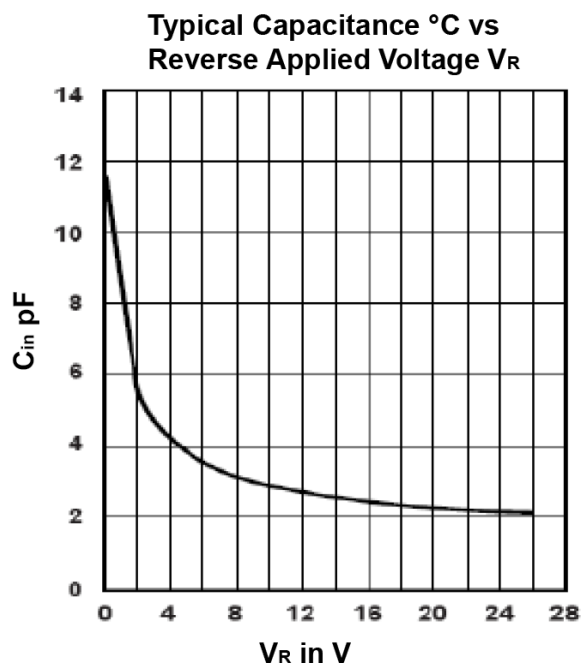
Ratings at 25°C unless otherwise specified

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	$\mu A$	$V_R=25V$
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:

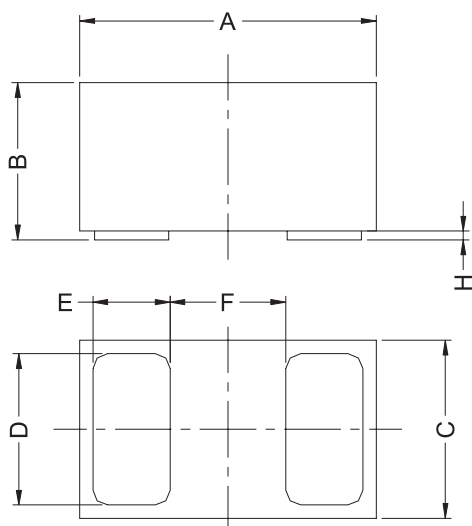
$T_A = 25^\circ C$  unless otherwise specified





## Package Outline:

Plastic surface mounted package



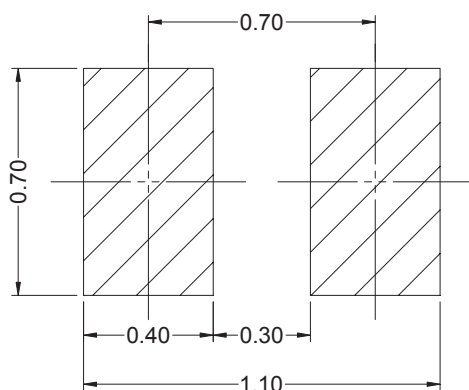
DFN1006-2			
Dim.	Min.	Typ.	Max.
A	0.95	1	1.075
B	0.47	0.5	0.53
C	0.55	0.6	0.675
D	0.45	0.5	0.55
E	0.2	0.25	0.3
F	-	0.4	-
H	0	0.03	0.05

Dimensions : Millimetres

# Schottky Barrier Diode



## 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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