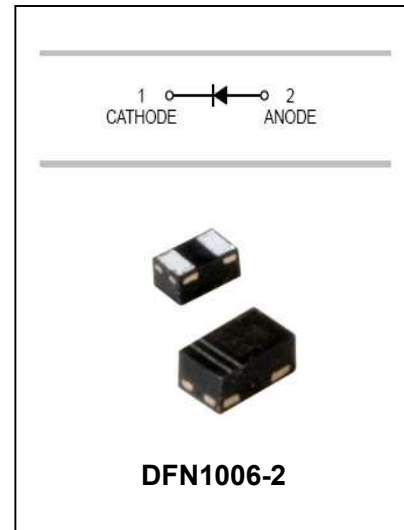


## Schottky Barrier Diode

## BAT54L

### 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.

### ORDERING INFORMATION

Type No.	Marking	Package Code
BAT54L	L9	DFN1006-2

### MAXIMUM RATING @ Ta=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 @t<1.0 s	$I_{FSM}$	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

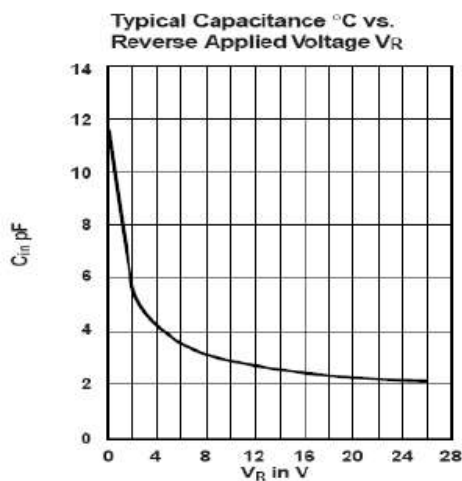
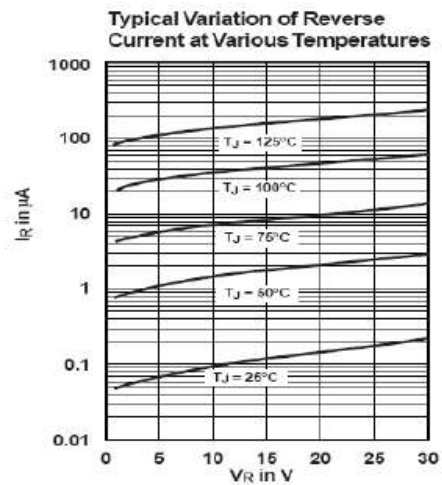
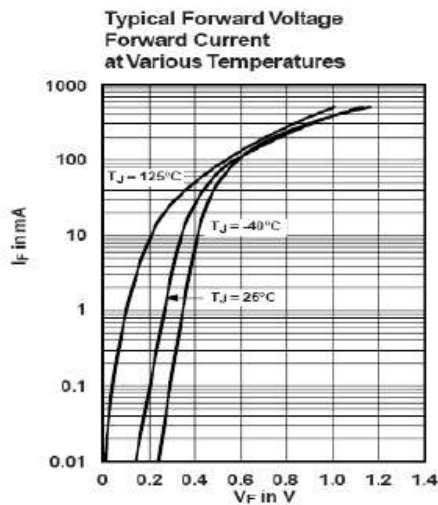
Schottky Barrier Diode

**BAT54L**

ELECTRICAL CHARACTERISTICS @ Ta=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 1.0	V	$I_F=0.1mA$ $I_F=1mA$ $I_F=10mA$ $I_F=30mA$ $I_F=100mA$
Reverse Current	$I_R$		2.0	$\mu A$	$V_R=25V$
Junction Capacitance	$C_J$		10	pF	$V_R=1V, f=1.0MHz$
Reverse Recovery Time	$t_{rr}$	-	5.0	ns	$I_F=I_R=10mA,$ $I_{rr}=0.1 \times I_R, R_L=100\Omega$

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified



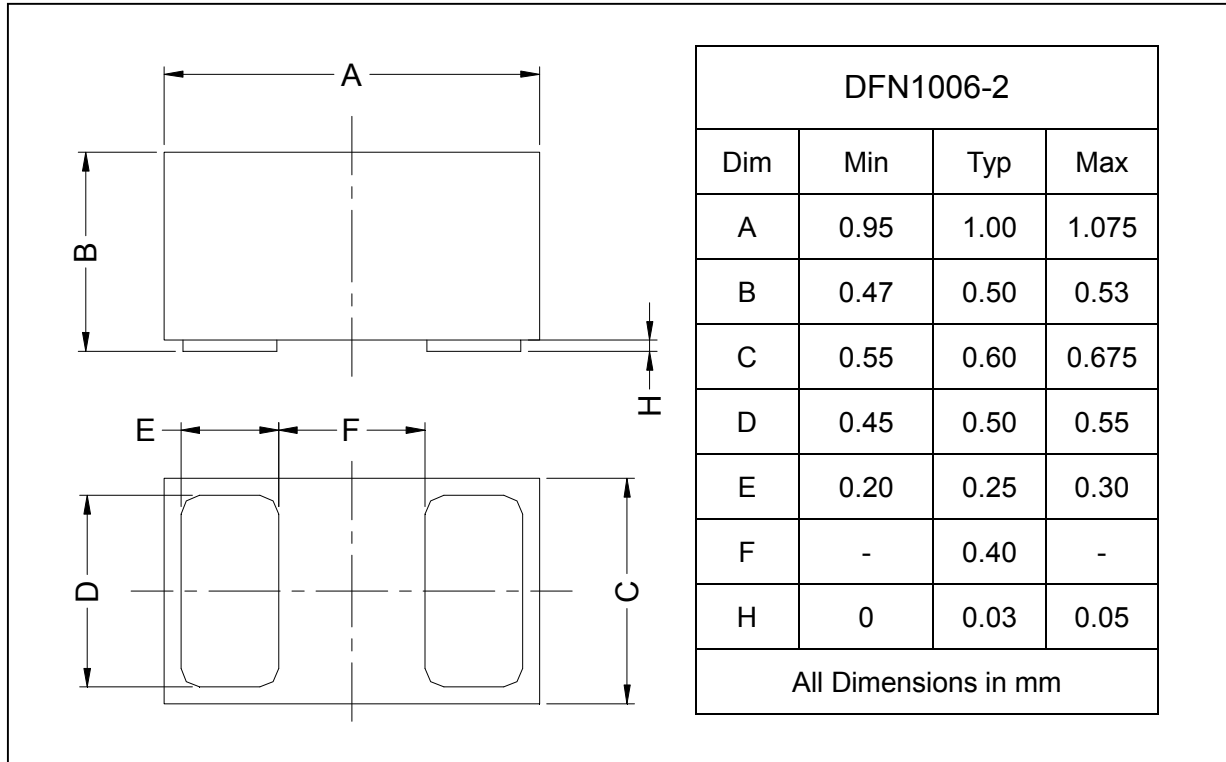
Schottky Barrier Diode

**BAT54L**

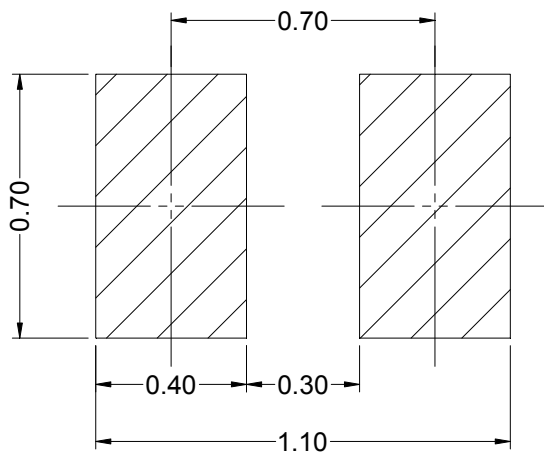
PACKAGE OUTLINE

Plastic surface mounted package

DFN1006-2



SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
BAT54L	DFN1006-2	5000/Tape&Reel