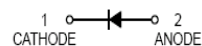
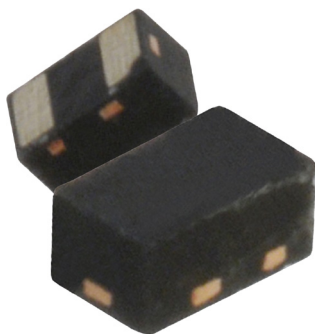


Schottky Barrier Diode



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 rage	T_J, T_{STG}	-65 to +125	°C

Schottky Barrier Diode



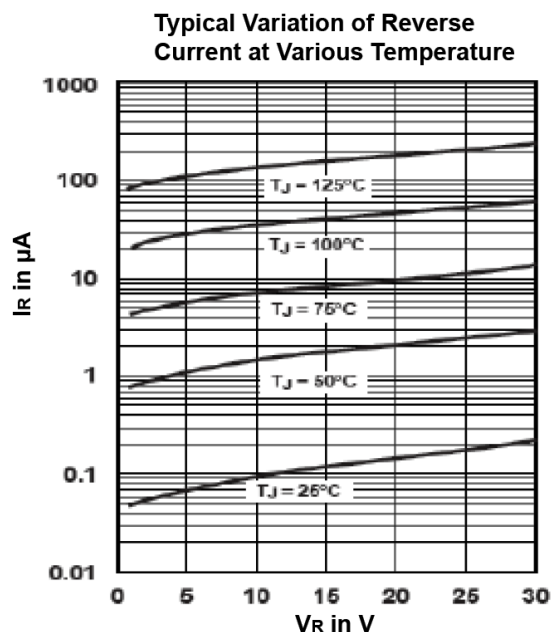
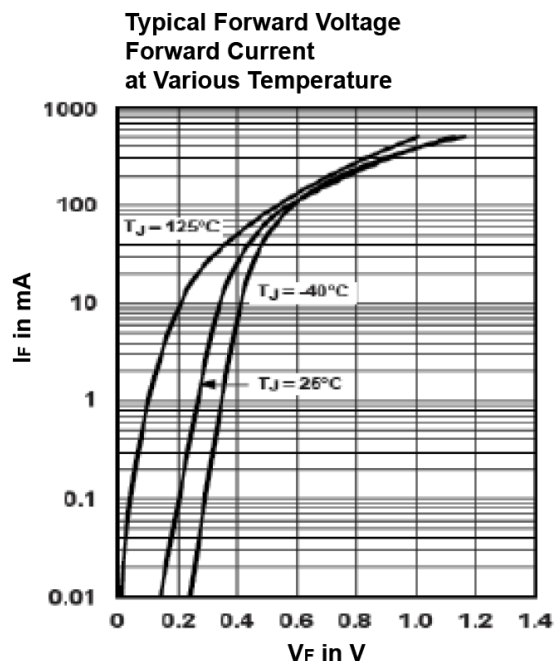
Electrical Characteristics:

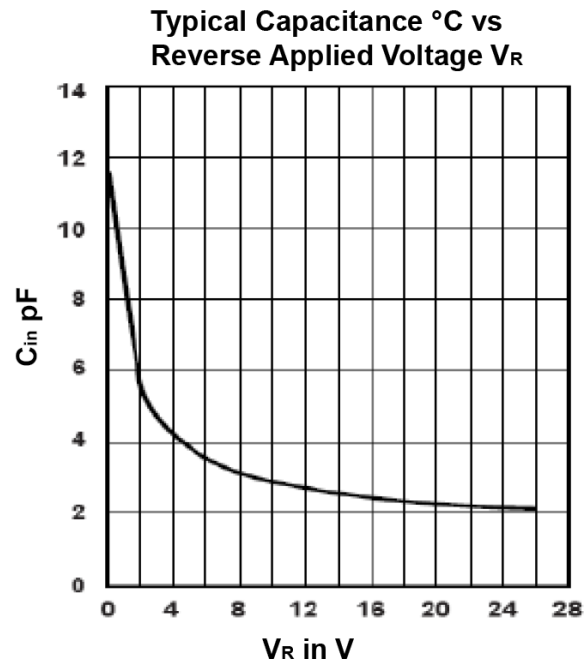
Ratings at 25°C unless otherwise specified

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	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:

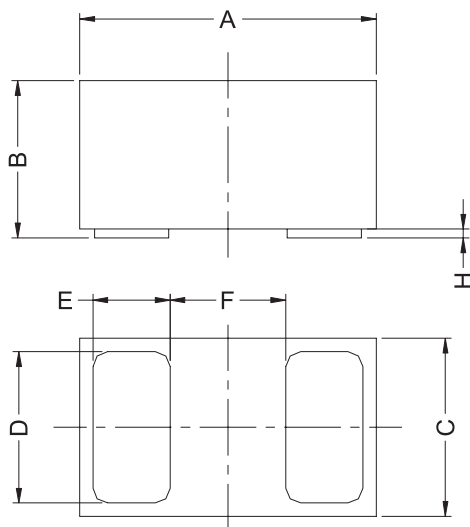
$T_A = 25^\circ C$ unless otherwise specified





Package Outline:

Plastic surface mounted package



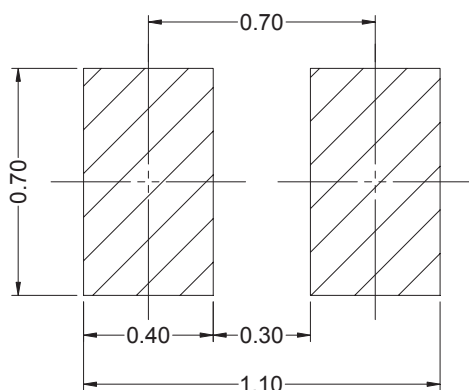
DFN1006-2			
Dim.	Min.	Typ.	Max.
A	0.95	1	1.075
B	0.47	0.5	0.53
C	0.55	0.6	0.675
D	0.45	0.5	0.55
E	0.2	0.25	0.3
F	-	0.4	-
H	0	0.03	0.05

Dimensions : Millimetres

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

Important Notice : This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp is the registered trademark of the Group. © Premier Farnell plc 2012.

www.element14.com
www.farnell.com
www.newark.com

