

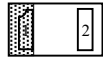


# BAS40LPH

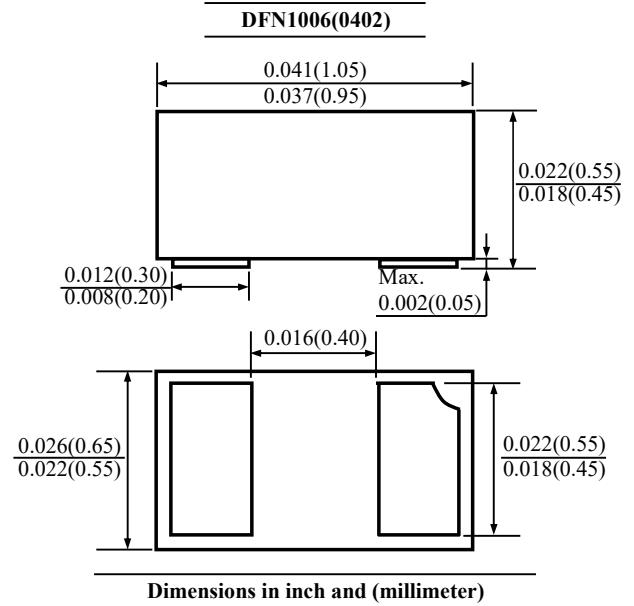
## SCHOTTKY DIODES

### FEATURES

- Low forward voltage
- Fast switching
- Suffix "H" indicates Halogen-free parts, ex. BAS40LPH



TOP VIEW



### Maximum Ratings@ $T_A=25\text{ }^\circ\text{C}$

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	40	V
DC Blocking Voltage	$V_R$	40	V
Forward Continuous Current	$I_F$	200	mA
Peak Forward Surge Current (at $t_p = 8.3\text{ ms}$ )	$I_{FSM}$	600	mA
Operating Junction Temperature	$T_J$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to +150	$^\circ\text{C}$

### Electrical Characteristics@ $T_A=25\text{ }^\circ\text{C}$

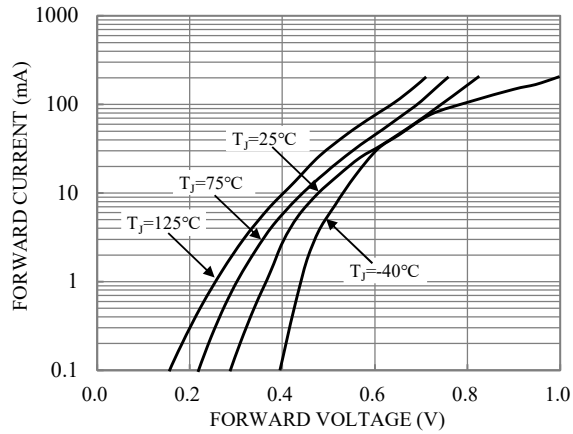
Parameter	Conditions	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage	$I_R=10\mu\text{A}$	$V_{(BR)R}$	40	-	V
Forward Voltage	$I_F=1\text{mA}$	$V_F$	-	0.38	V
	$I_F=40\text{mA}$		-	1.00	
Reverse Current	$V_R=30\text{V}$	$I_R$	-	200	nA
Reverse Recovery Time	$I_F=I_R=10\text{mA}$ to $I_R=1\text{mA}$ $R_L=100\Omega$	$t_{rr}$	-	5	ns
Forward Voltage	$V_R=0\text{V}$ , $f=1\text{MHz}$	$C_J$	-	5	pF



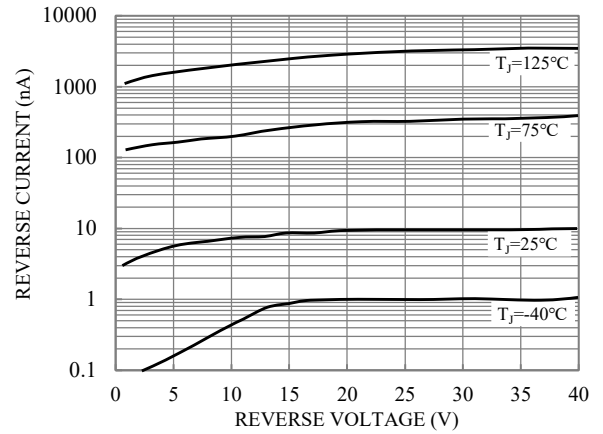
# BAS40LPH

## SCHOTTKY DIODES

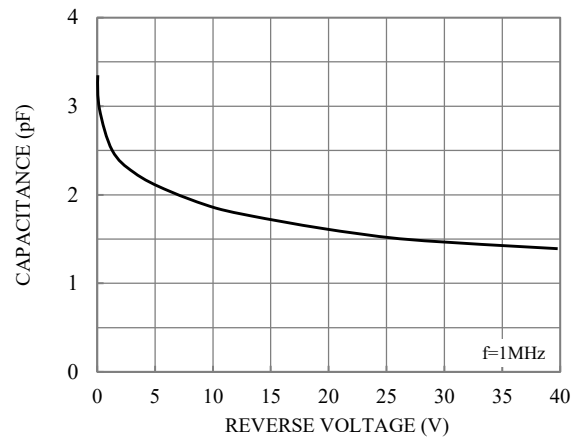
### RATINGS AND CHARACTERISTIC CURVES



**Fig.1-TYPICAL FORWARD CHARACTERISTICS**



**Fig.2-TYPICAL REVERSE CHARACTERISTICS**



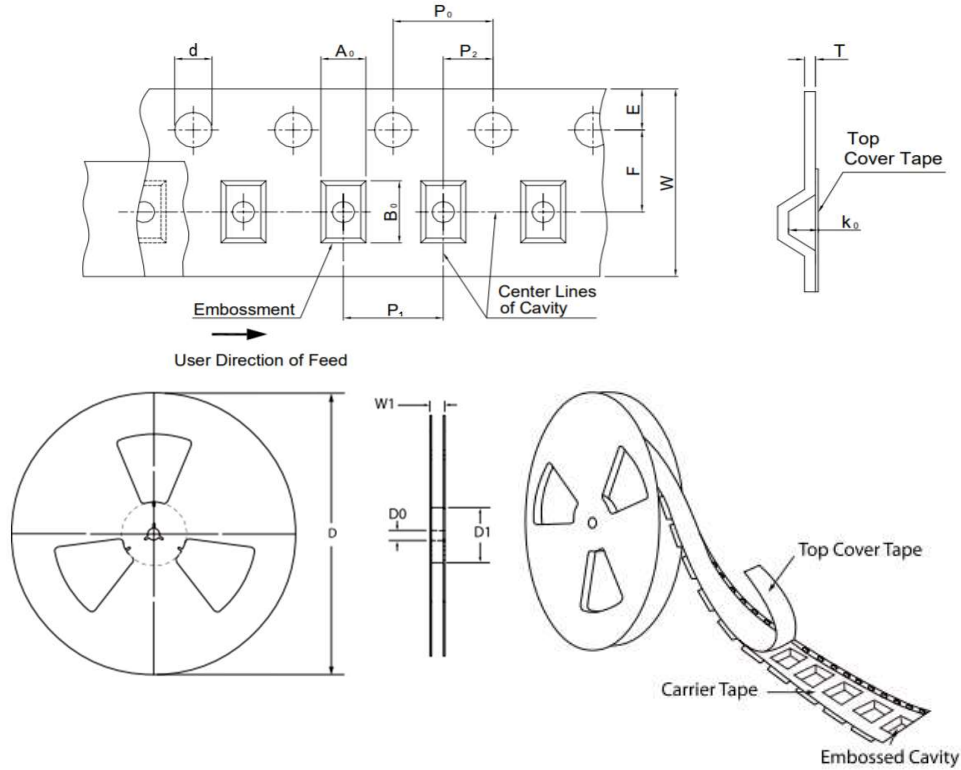
**Fig.3-TYPICAL CAPACITANCE**



# BAS40LPH

## SCHOTTKY DIODES

### TAPE & REEL SPECIFICATION



Item	Symbol	DFN1006
Carrier width	$A_0$	Note *
Carrier length	$B_0$	
Carrier depth	$K_0$	
Sprocket hole	d	$1.50 \pm 0.10$
Reel outside diameter	D	$178.00 \pm 2.00$
Feed hole width	$D_0$	$13.00 \pm 0.50$
Reel inner diameter	$D_1$	MIN. 54.00
Sprocket hole position	E	$1.75 \pm 0.10$
Punch hole position	F	$3.50 \pm 0.10$
Sprocket hole pitch	$P_0$	$4.00 \pm 0.10$
Punch hole pitch	$P_1$	$2.00 \pm 0.10$
Embossment center	$P_2$	$2.00 \pm 0.10$
Overall tape thickness	T	MAX. 0.60
Tape width	W	$8.00 \pm 0.30$
Reel width	W1	$8.40 \pm 1.50$

Note \*:  $A_0$ ,  $B_0$ , and  $K_0$  are determined by component size. The clearance between the components and the cavity must be within 0.05 mm min. to 0.5 mm max.

### ORDER INFORMATION

Package	Reel Size	Quantity
DFN1006	7"	10,000

### MARKING CODE

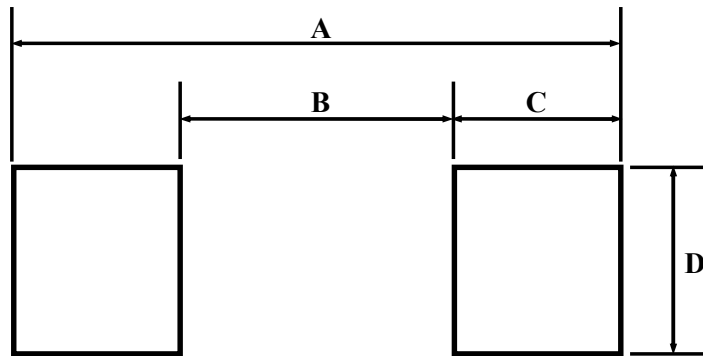
Part Number	Marking Code
BAS40LPH	S6



# BAS40LPH

## SCHOTTKY DIODES

### SUGGESTED SOLDER PAD LAYOUT



Unit :mm

PACKAGE	A	B	C	D
DFN1006	1.10	0.30	0.40	0.60