

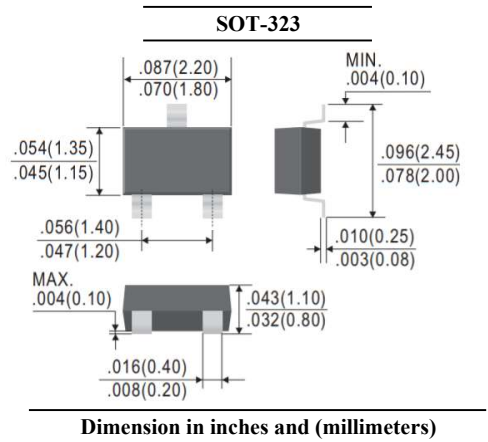
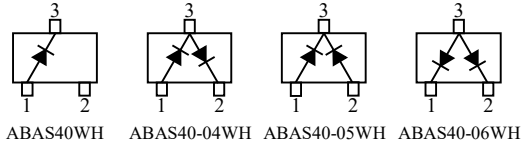


# ABAS40WH / -04WH / -05WH / -06WH

## SCHOTTKY DIODES

### FEATURES

- AEC-Q101 qualified
- Low forward voltage
- Fast switching
- Suffix "H" indicates Halogen-free parts, ex. ABAS40WH



### Maximum Ratings ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	40	V
DC Blocking Voltage	$V_R$	40	V
Average Rectified Forward Current	$I_F$	200	mA
Peak Forward Surge Current	$I_{FSM}$	600	mA
Power Dissipation	$P_D$	200	mW
Junction Temperature	$T_J$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55 to +150	$^\circ\text{C}$

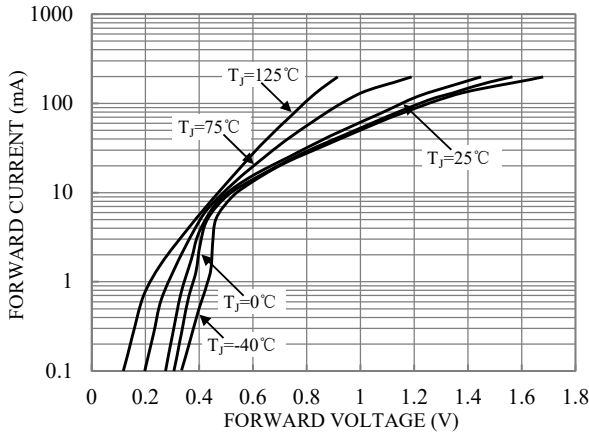
### Electrical Characteristics ( $T_A = 25^\circ\text{C}$ unless otherwise specified)

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
Junction Capacitance	$V_R = 0\text{V}$ , $f = 1\text{MHz}$	$C_T$	-	5	pF
Reverse Recovery Time	$I_F = I_R = 10\text{mA}$ to $I_{tr} = 0.1I_R$	$t_{rr}$	-	5	ns

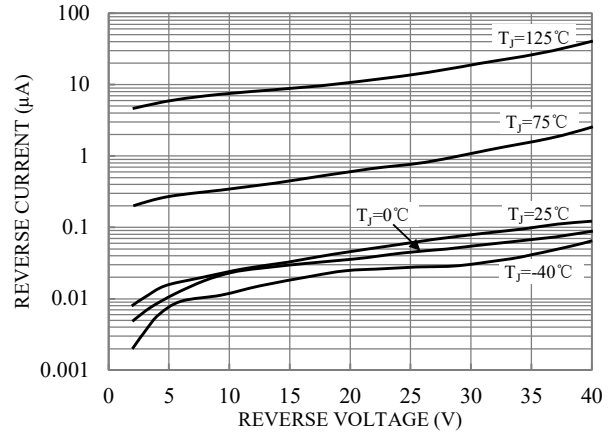


# ABAS40WH / -04WH / -05WH / -06WH SCHOTTKY DIODES

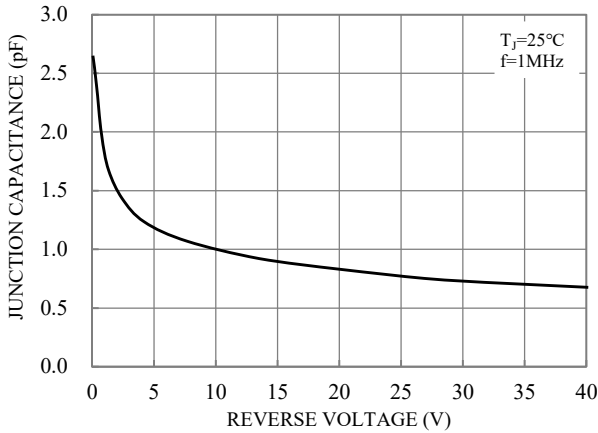
## RATINGS AND CHARACTERISTIC CURVES



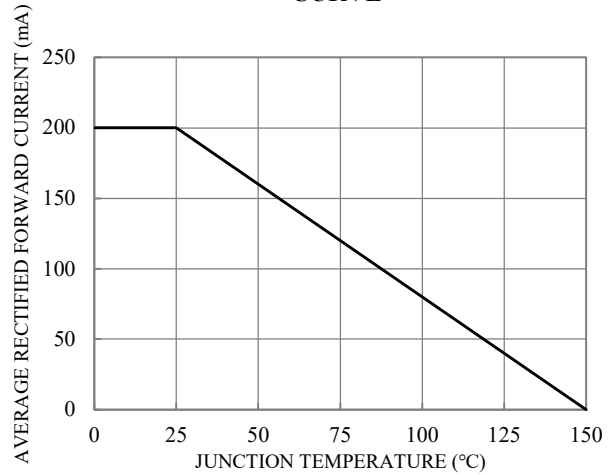
**Fig. 1-FORWARD CHARACTERISTICS CURVE**



**Fig. 2-REVERSE CHARACTERISTICS CURVE**



**Fig. 3-JUNCTION CAPACITANCE**

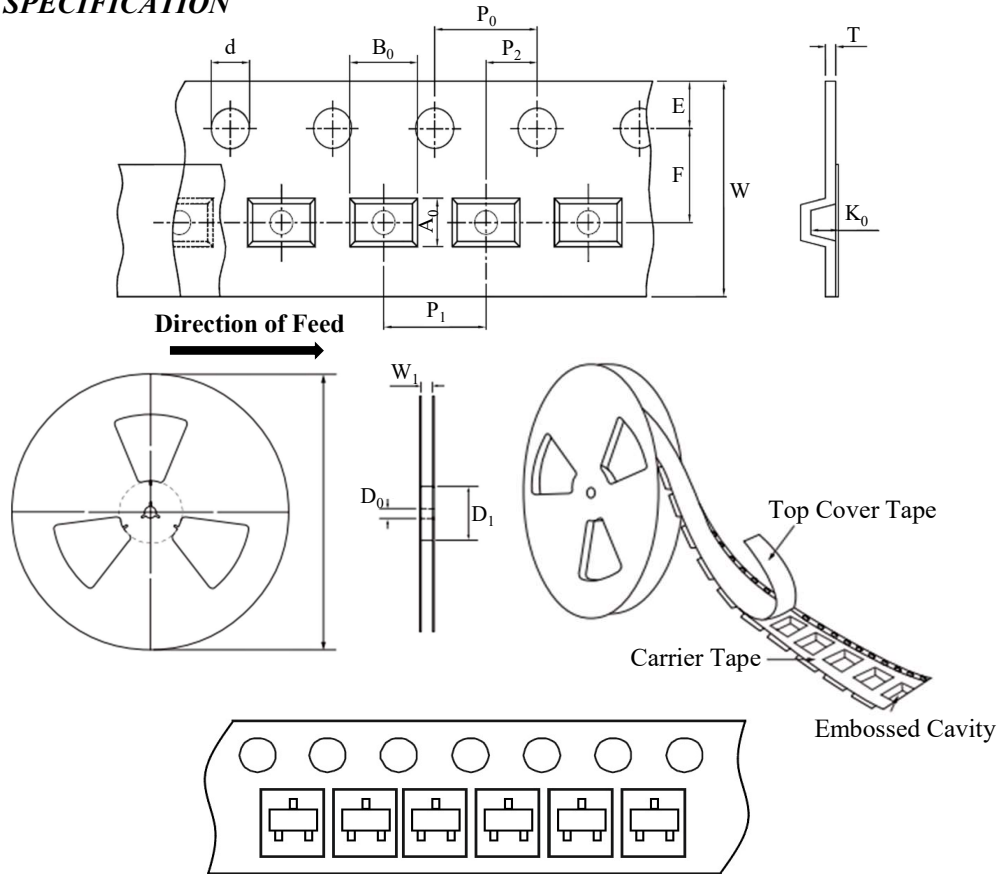


**Fig. 4-AVERAGE RECTIFIED FORWARD CURRENT DERATING CURVE**



# ABAS40WH / -04WH / -05WH / -06WH SCHOTTKY DIODES

## TAPE & REEL SPECIFICATION



Item	Symbol	SOT-323
Carrier width	$A_0$	*
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. 50.00
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	$P_1$	$4.00 \pm 0.10$
Embossment center	$P_2$	$2.00 \pm 0.10$
Overall tape thickness	T	$0.20 \pm 0.05$
Tape width	W	$8.00 \pm 0.20$
Reel width	W1	MAX. 14.50

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.

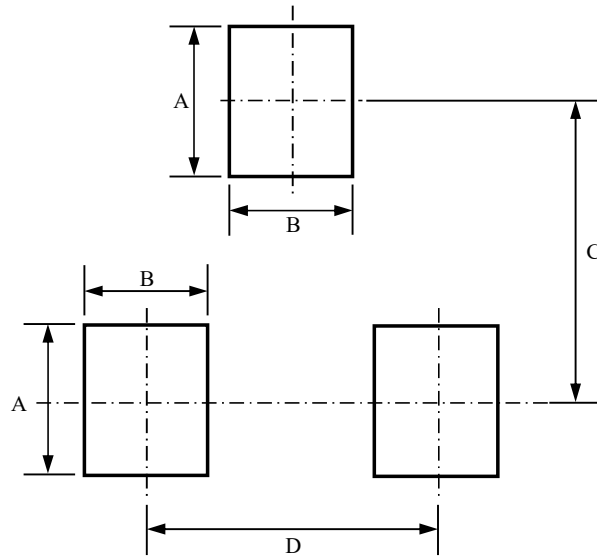
## ORDER INFORMATION

Part Number	Marking Code	Reel Size	Quantity
ABAS40WH	43	7"	3,000
ABAS40-04WH	44		
ABAS40-05WH	45		
ABAS40-06WH	46		



# ABAS40WH / -04WH / -05WH / -06WH SCHOTTKY DIODES

## SUGGESTED SOLDER PAD LAYOUT



Unit :mm

PACKAGE	A	B	C	D
SOT-323	0.80	0.80	1.60	1.30