

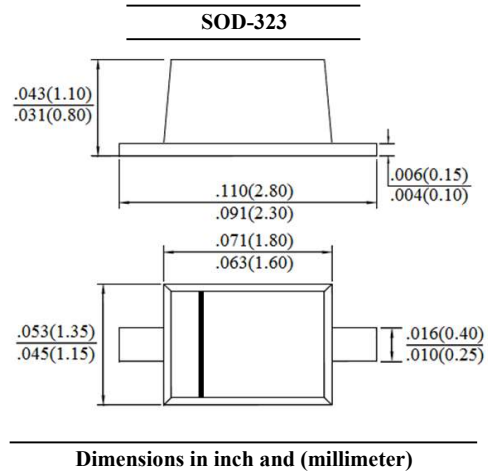


# BAT60FWSH

## SCHOTTKY DIODES

### FEATURES

- Ultra high-speed switching
- Very low forward voltage
- Suffix "H" indicates Halogen-free parts, ex. BAT60FWSH



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

Parameter	Symbol	Value	Unit
Reverse Voltage	$V_R$	10	V
Peak Forward Current	$I_F$	3	A
Non-repetitive Peak Forward Current ( $t_p = 10\text{ ms}$ )	$I_{FSM}$	5	A
Total Power Dissipation	$P_{tot}$	350	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	300	$^\circ\text{C}/\text{W}$
Junction Temperature	$T_J$	125	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to +125	$^\circ\text{C}$

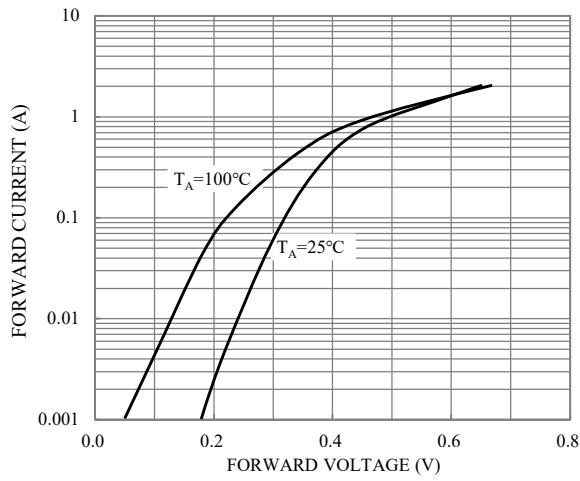
### Electrical Characteristics@ $T_A = 25\text{ }^\circ\text{C}$

Parameter	Conditions	Symbol	Typ.	Max.	Unit
Forward Voltage	$I_F = 10\text{ mA}$	$V_F$	-	0.32	V
	$I_F = 100\text{ mA}$		-	0.38	
	$I_F = 500\text{ mA}$		-	0.50	
	$I_F = 1\text{ A}$		-	0.58	
Reverse Current	$V_R = 5\text{ V}$	$I_R$	-	3	$\mu\text{A}$
	$V_R = 8\text{ V}$		-	4	
Total Capacitance	$V_R = 5\text{ V}, f = 1\text{ MHz}$	$C_T$	30	-	pF

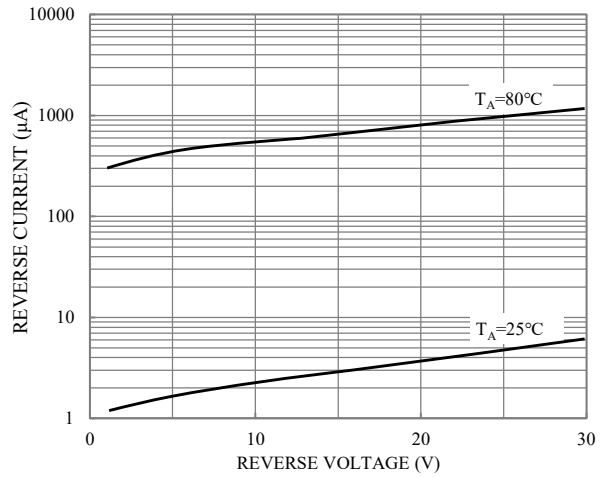


# BAT60FWSH SCHOTTKY DIODES

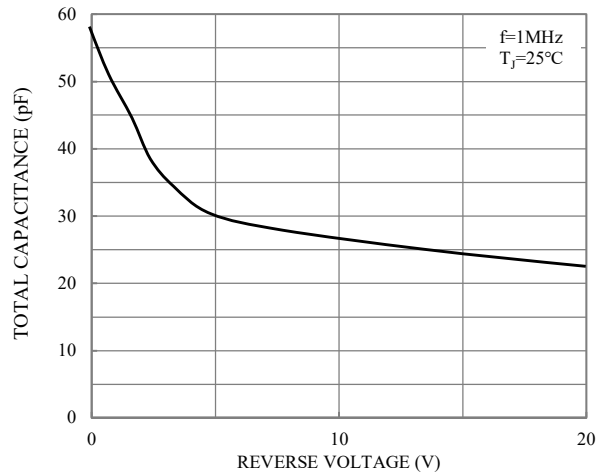
## RATINGS AND CHARACTERISTIC CURVES



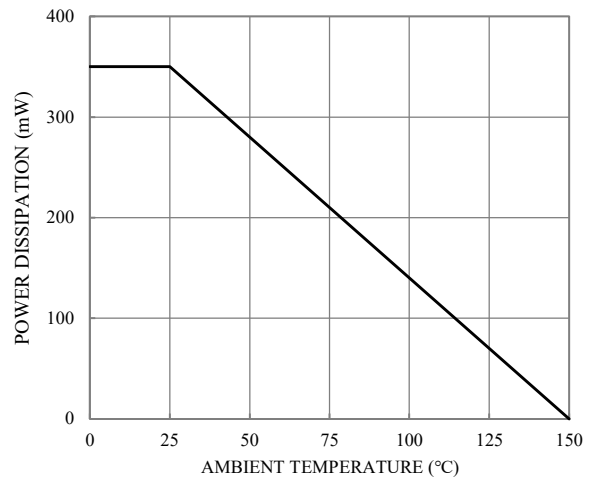
**Fig.1-TYPICAL FORWARD CHARACTERISTICS**



**Fig.2-TYPICAL REVERSE CHARACTERISTICS**



**Fig.3-CAPACITANCE**



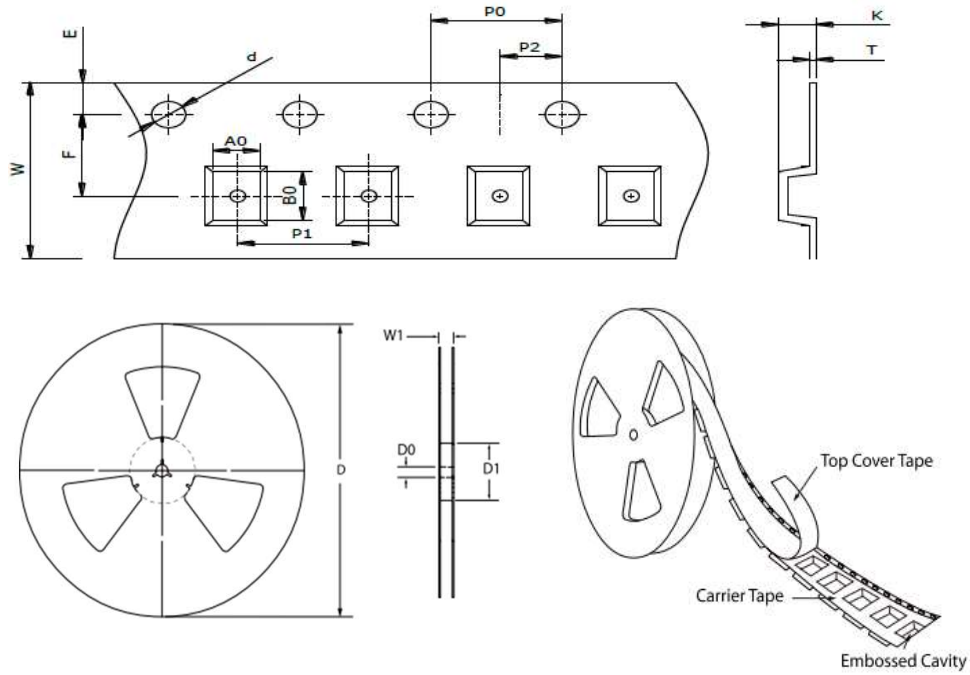
**Fig.4-DERATING CURVE**



# BAT6FWSH

## SCHOTTKY DIODES

### TAPE & REEL SPECIFICATION



Item	Symbol	SOD-323
Carrier width	A <sub>0</sub>	1.50 ± 0.10
Carrier length	B <sub>0</sub>	2.95 ± 0.10
Carrier depth	K	1.20 ± 0.10
Sprocket hole	d	1.50 ± 0.10
Reel outside diameter	D	178.00 ± 2.00
Feed hole width	D <sub>0</sub>	13.00 ± 0.50
Reel inner diameter	D <sub>1</sub>	MIN. 50.00
Sprocket hole position	E	1.75 ± 0.10
Punch hole position	F	3.50 ± 0.10
Sprocket hole pitch	P <sub>0</sub>	4.00 ± 0.10
Punch hole pitch	P <sub>1</sub>	4.00 ± 0.10
Embossment center	P <sub>2</sub>	2.00 ± 0.10
Overall tape thickness	T	MAX. 0.60
Tape width	W	8.00 ± 0.20
Reel width	W <sub>1</sub>	MAX. 10.00

### ORDER INFORMATION

Package	Reel Size	Quantity
SOD-323	7"	3,000

### MARKING CODE

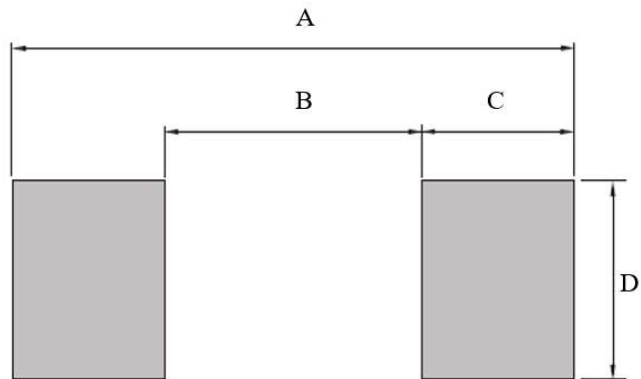
Part Number	Marking Code
BAT60FWSH	FP



# BAT60FWSH

## SCHOTTKY DIODES

### SUGGESTED SOLDER PAD LAYOUT



Unit : mm

PACKAGE	A	B	C	D
SOD-323	2.90	1.30	0.80	0.90