



# THE DATASHEET OF BAT54WX-TP





Micro Commercial Components



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# BAT54WX

## 200mWatt, 30Volt Schottky Diodes

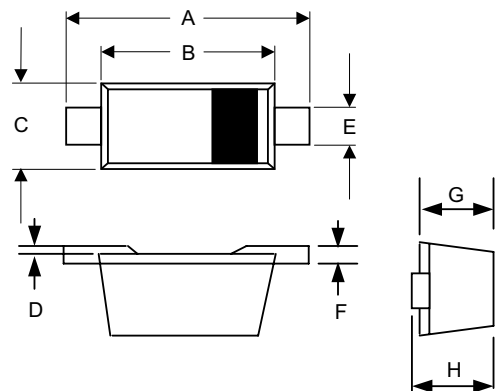
### Features

- Extremely-Fast Switching Speed
- Low Forward Voltage Drop
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking Code: JV
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"

### Maximum Ratings

Symbol	Rating	Rating	Unit
$V_{RRM}$	Peak Repetitive Reverse Voltage	30	V
$V_{RWM}$	Working Peak Reverse Voltage		
$V_R$	DC Blocking Voltage		
$I_F$	Forward Current	200	mA
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	635	$^{\circ}C/W$
$P_D$	Power dissipation	200	mW
$T_J$	Junction Temperature	-65 to +150	$^{\circ}C$
$T_{STG}$	Storage Temperature	-65 to +150	$^{\circ}C$
$I_{FRM}$	Repetitive peak forward current	300	mA
$I_{FSM}$	Peak forward current (9t=1us)	600	mA

### SOD-523

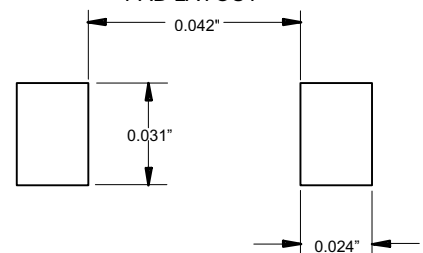


### Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Test Conditions
$V_{(BR)}$	Reverse Breakdown Voltage	30V		$I_R=10 \mu A$
$I_R$	Reverse Voltage Leakage Current		2 $\mu A$	$V_R=25V$
$V_F$	Forward Voltage		0.24V 0.50V 0.80V 0.32V 0.40V	$I_F=0.1mA$ $I_F=30mA$ $I_F=100mA$ $I_F=1.0mA$ $I_F=10mA$
$C_T$	Total Capacitance		10pF	$V_R=1V, f=1MHz$
$t_{rr}$	Reverse Recovery Time		5ns	$I_{FR}=10mA, I_R=10mA \sim 1mA$

DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.059	.067	1.50	1.70	
B	.043	.051	1.10	1.30	
C	.030	.033	0.75	0.85	
D	.001	.003	0.01	0.07	
E	.010	.014	0.25	0.35	
F	.003	.006	0.08	0.15	
G	.020	.028	0.50	0.70	
H	.020	.031	0.51	0.77	

### SUGGESTED SOLDER PAD LAYOUT



# BAT54WX

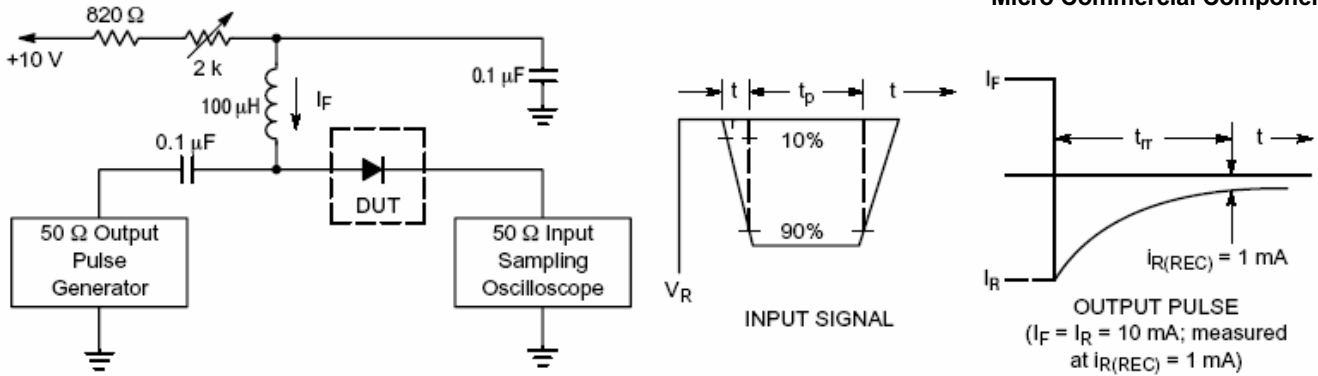


Figure 1. Recovery Time Equivalent Test Circuit

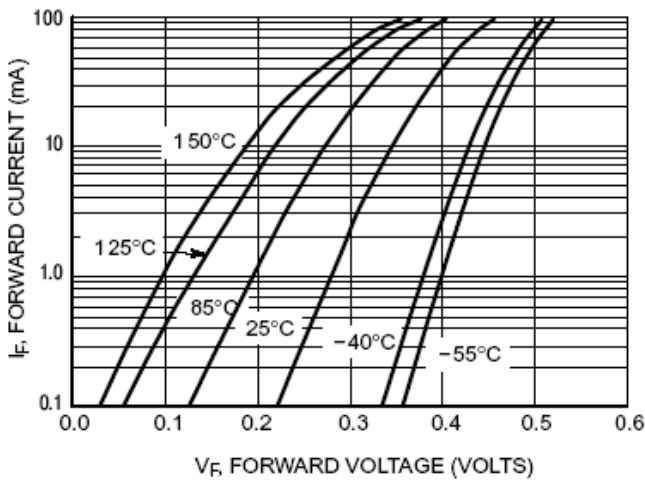


Figure 2. Forward Voltage

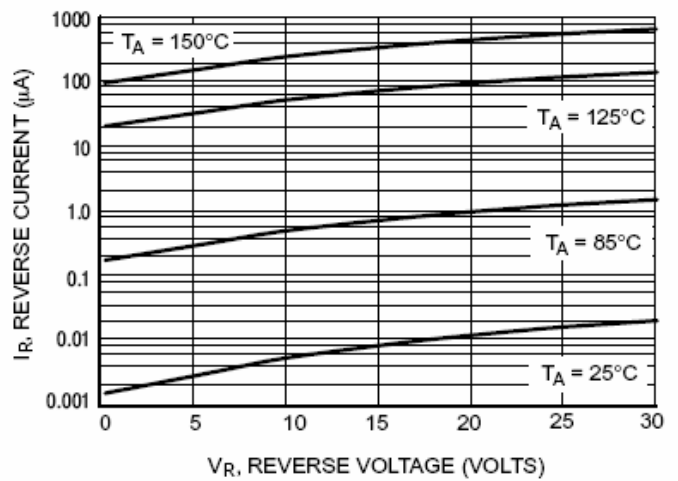


Figure 3. Leakage Current

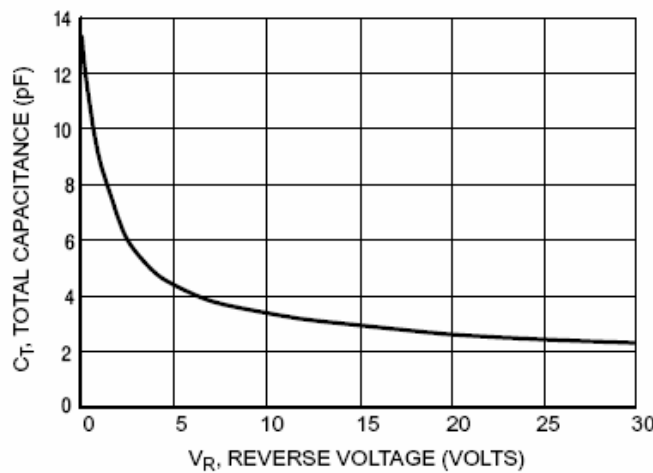


Figure 4. Total Capacitance



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### Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 8Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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