

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

## **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)

# **Maximum Ratings**

Symbol	Rating	Rating	Unit
V <sub>RRM</sub>	Peak Repetitive Reverse Voltage		
V <sub>RWM</sub>	Working Peak Reverse Voltage	30	V
V <sub>R</sub>	DC Blocking Voltage		
l <sub>F</sub>	Forward Current	200	mA
R $_{\theta}$ JA	Thermal Resistance Junction to Ambient	635	°C/W
PD	Power dissipation	200	mW
TJ	Junction Temperature	-65 to +150	°C
T <sub>STG</sub>	Storage Temperature	-65 to +150	°C
I <sub>FRM</sub>	Repetitive peak forward current	300	mA
I <sub>FSM</sub>	Peak forward current 9t=1us)	600	mA

# 200mWatt, 30Volt Schottky Diodes

**BAT54WX** 

# SOD-523

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

Symbol	Parameter	Min	Max	Test Conditions
V <sub>(BR)</sub>	Reverse Breakdown Voltage	30V		I <sub>R</sub> =10 μ A
I <sub>R</sub>	Reverse Voltage Leakage Current		2 µ A	V <sub>R</sub> =25V
V <sub>F</sub>	Forward Voltage		0.24V 0.50V 0.80V 0.32V 0.40V	I <sub>F</sub> =0.1mA I <sub>F</sub> =30mA I <sub>F</sub> =100mA I <sub>F</sub> =1.0mA I <sub>F</sub> =10mA
CT	Total Capacitance		10pF	V <sub>R</sub> =1V, f=1MHZ
t <sub>rr</sub>	Reverse Recovery Time		5ns	I <sub>rr</sub> =10mA,I <sub>R</sub> =10mA~1 mA

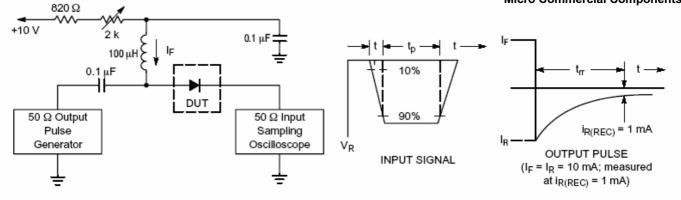
	DIMENSIONS						
	INCH	IES	ММ				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.059	.067	1.50	1.70			
В	.043	.051	1.10	1.30			
С	.030	.033	0.75	0.85			
D	.001	.003	0.01	0.07			
E	.010	.014	0.25	0.35			
F	.003	.006	0.08	0.15			
G	.020	.028	0.50	0.70			
Н	.020	.031	0.51	0.77			

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# BAT54WX

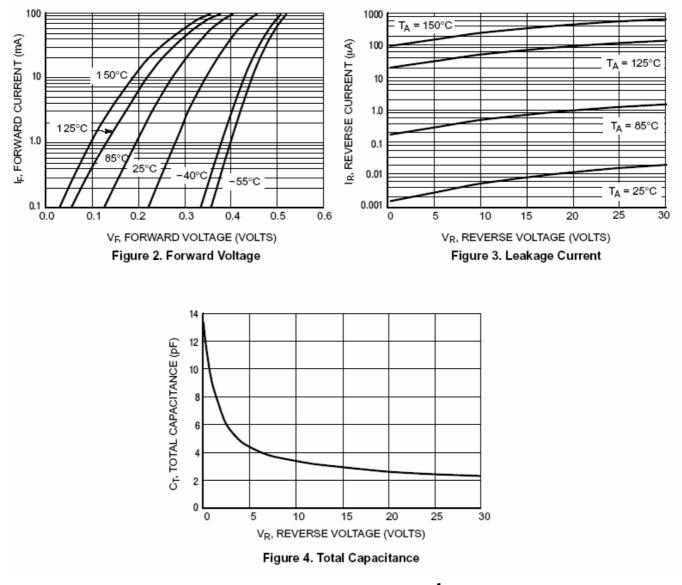


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Notes: 1. A 2.0 k $\Omega$  variable resistor adjusted for a Forward Current (I<sub>F</sub>) of 10 mA. 2. Input pulse is adjusted so I<sub>R(peak)</sub> is equal to 10 mA. 3.  $t_p \gg t_{rr}$ 





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### **Ordering Information :**

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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