

Micro Commercial Components

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BAT54WX

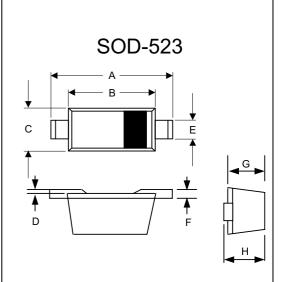
Features

- · Extremely-Fast Switching Speed
- Low Forward Voltage Drop
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- · Marking Code: JV
- Lead Free Finish/RoHS Compliant (NOTE 1)("P" Suffix designates RoHS Compliant. See ordering information)

200mWatt, 30Volt Schottky Diodes

Maximum Ratings

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



Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Test Conditions
$V_{(BR)}$	Reverse Breakdown Voltage	30V		I _R =10 μ A
I _R	Reverse Voltage Leakage Current		2 µ 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
Ст	Total Capacitance		10pF	V _R =1V, f=1MHZ
t _{rr}	Reverse Recovery Time		5ns	I _{rr} =10mA,I _R =10mA~1 mA

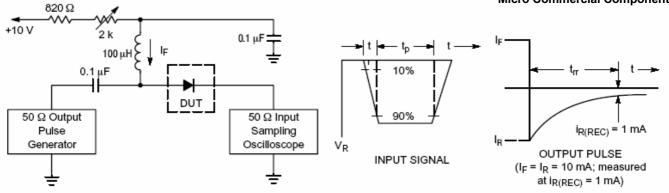
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7

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		
Е	.010	.014	0.25	0.35		
F	.003	.003	0.08	0.15		
G	.020	.028	0.50	0.70		
Н	.020	.031	0.51	0.78		

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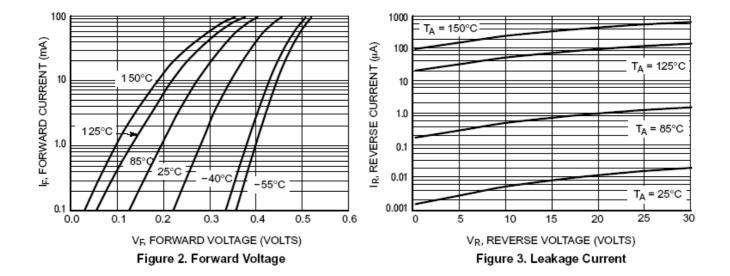
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Notes: 1. A 2.0 k Ω variable resistor adjusted for a Forward Current (I_F) of 10 mA.

- Input pulse is adjusted so I_{R(peak)} is equal to 10 mA.
- 3. t_p » t_{rr}

Figure 1. Recovery Time Equivalent Test Circuit



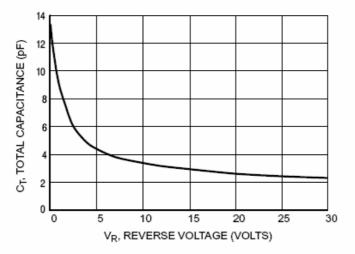


Figure 4. Total Capacitance



Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel3Kpcs/Reel

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