



Micro Commercial Components

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

Features

- Case Material: Molded Plastic. UL Flammability Classification Rating 94-0 and MSL Rating 1
- High Reliability
- Low Forward Voltage and Low Reverse Current
- Small Surface Mount Type
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings

Continuous Reverse Voltage	V_R	30V
Continuous Forward Current	I_F	200mA
Total Power Dissipation @ $T_A = 25^\circ\text{C}$ Derate above 25°C	P_D	200mW 1.8mW/ $^\circ\text{C}$
Junction Temperature	T_j	125 $^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 $^\circ\text{C}$ to 125 $^\circ\text{C}$
Device Marking : L9/JV		

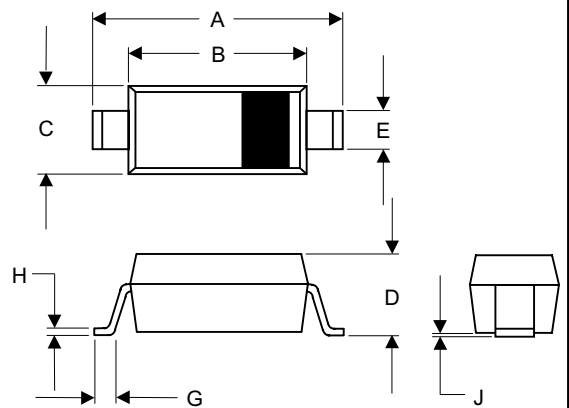
Electrical Characteristics @ 25 $^\circ\text{C}$ Unless Otherwise Specified

Ratings	Symbol	Max.	Notes
Forward Voltage at $I_F = 0.1\text{mA}$ $I_F = 1\text{mA}$ $I_F = 10\text{mA}$ $I_F = 30\text{mA}$ $I_F = 100\text{mA}$	V_F	240mV 370mV 400mV 500mV 1000mV	
Reverse Current	I_R	0.2 μA 0.5 μA	$V_R = 25\text{V}$ $V_R = 30\text{V}$
Capacitance	C_J	2.0pF	Measured at 1.0MHz, $V_R=1.0\text{V}$
Reverse Breakdown Voltage	$V_{(BR)}$	>30V	
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500K/W	

BAT54WS

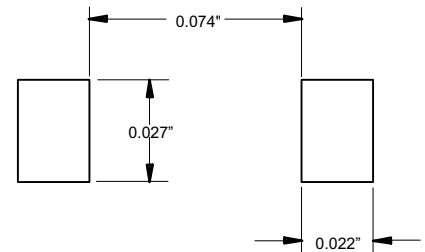
200mWatt, 30Volt Schottky Barrier Diode

SOD-323

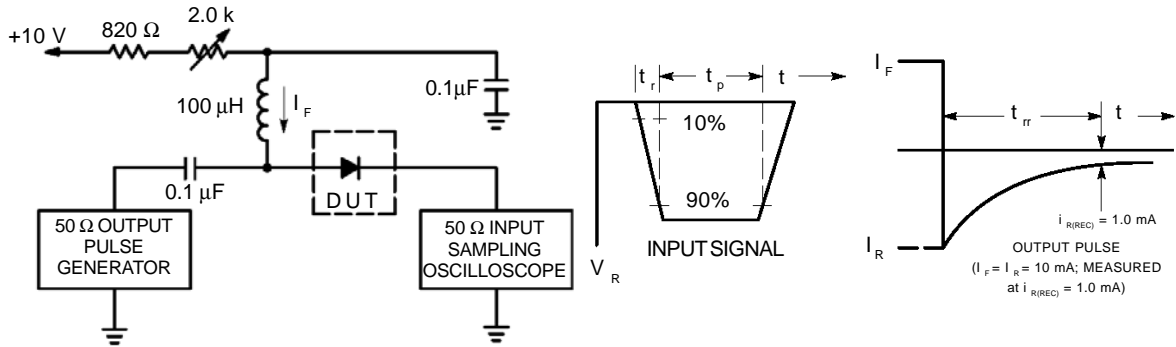


DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.090	.107	2.30	2.70	
B	.063	.071	1.60	1.80	
C	.045	.053	1.15	1.35	
D	.031	.045	0.80	1.15	
E	.010	.016	0.25	0.40	
G	.004	.018	0.10	0.45	
H	.004	.010	0.10	0.25	
J	----	.006	----	0.15	

SUGGESTED SOLDER PAD LAYOUT



BAT54WS



- Notes: 1. A 2.0 kΩ variable resistor adjusted for a Forward Current (I_F) of 10mA.
 2. Input pulse is adjusted so $I_{R(peak)}$ is equal to 10mA.
 3. $t_p \gg t_{rr}$

Figure 1. Recovery Time Equivalent Test Circuit

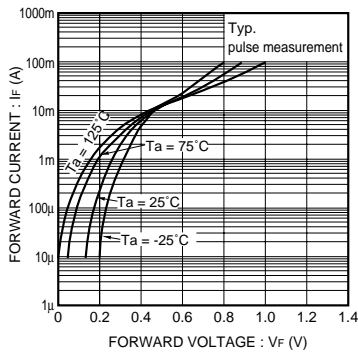


Fig. 2 Forward characteristics

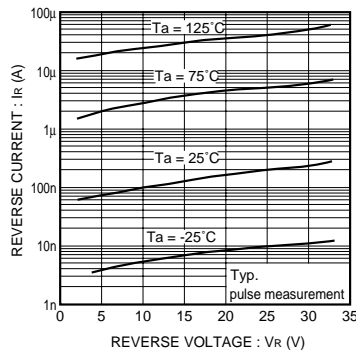


Fig. 3 Reverse characteristics

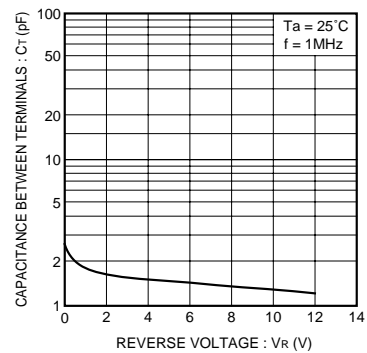


Fig. 4 Capacitance between terminals characteristics



Micro Commercial Components

Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;3Kpcs/Reel

*****IMPORTANT NOTICE*****

Micro Commercial Components Corp . reserves the right to make changes without further notice to any product herein to make corrections, modifications , enhancements , improvements , or other changes .
Micro Commercial Components Corp . does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights ,nor the rights of others . The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp* . and all the companies whose products are represented on our website, harmless against all damages.

*****APPLICATIONS DISCLAIMER*****

Products offer by *Micro Commercial Components Corp* . are not intended for use in Medical, Aerospace or Military Applications.