



Micro Commercial Components

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Features

- High Reliability
- Low Forward Voltage
- Low Reverse Current
- Small Surface Mount Type
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

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°C
Storage Temperature Range	T_{stg}	-55°C to 125°C
Device Marking : L9/JV		

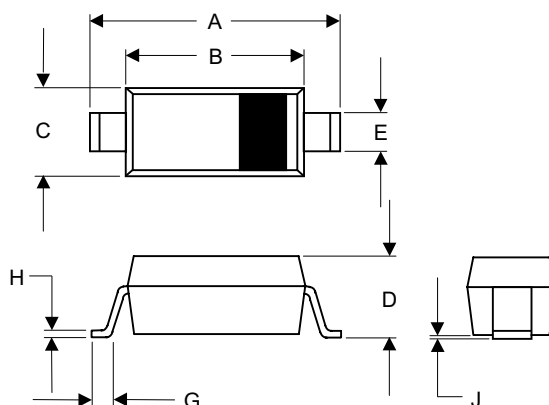
Electrical Characteristics @ 25°C Unless Otherwise Specified

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	

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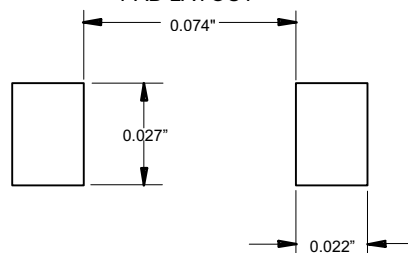
200mWatt, 30Volt Schottky Barrier Diode

SOD323

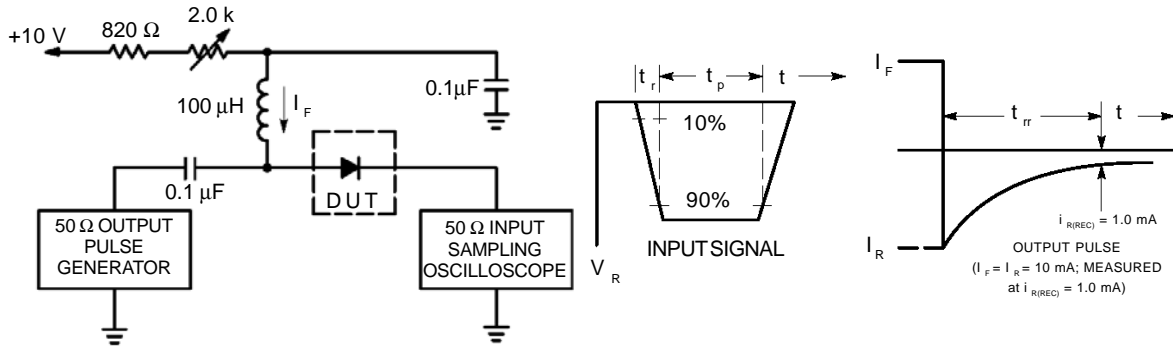


DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.090	.107	2.30	2.70	
B	.063	.071	1.60	1.80	
C	.045	.053	1.15	1.35	
D	.031	.045	0.80	1.15	
E	.010	.016	0.25	0.40	
G	.004	.018	0.10	0.45	
H	.004	.010	0.10	0.25	
J	----	.006	----	0.15	

SUGGESTED SOLDER PAD LAYOUT



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- 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

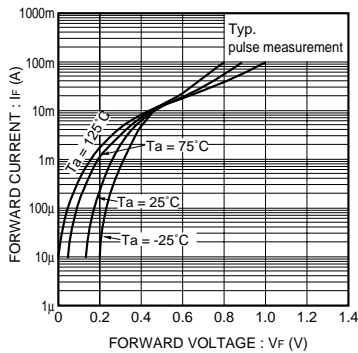


Fig. 2 Forward characteristics

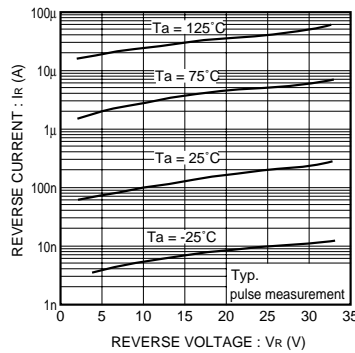


Fig. 3 Reverse characteristics

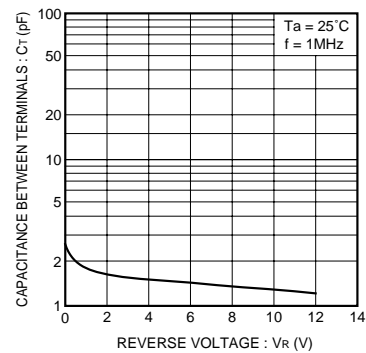


Fig. 4 Capacitance between terminals characteristics



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