



Micro Commercial Components  
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# 1N4148WLP

**100 mA**  
**Switching Diode**  
**80 Volts**

## Features

- Small surface mounting type
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Marking:7

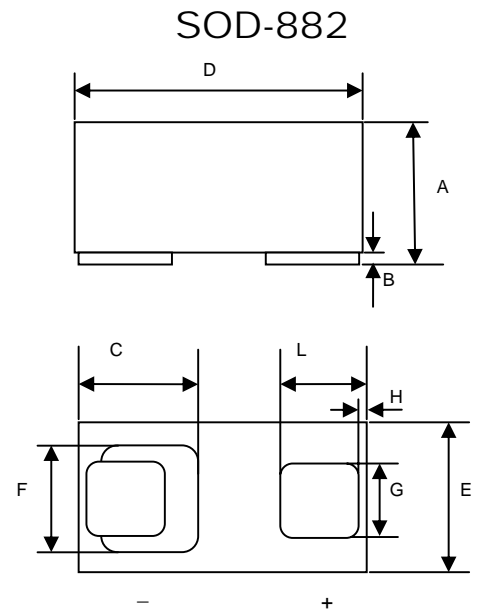


## Maximum Ratings

Symbol	Rating	Rating	Unit
$V_R$	DC Reverse Voltage	80	V
$I_O$	Mean Rectifying Current	100	mA
$I_{FSM}$	Peak Forward Surge Current*	0.5	A
$T_J$	Junction Temperature	125	°C
$T_{STG}$	Storage Temperature	-40 to +125	°C

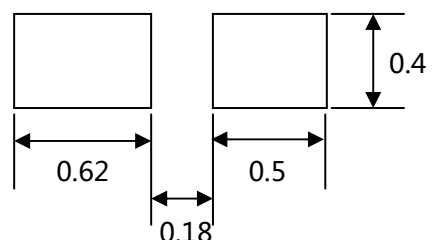
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
$V_F$	Forward Voltage ( $I_F=100mA_{dc}$ )	---	---	1.2	Vdc
$I_R$	Reverse Current ( $V_R=80V_{dc}$ )	---	---	0.1	$\mu A_{dc}$
$T_{rr}$	Reverse Recovery Time ( $V_R=6V, I_f=10mA, R_l=10\Omega$ )	---	---	4.0	ns



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.018	0.022	0.45	0.55	
B	0.000	0.003	0.01	0.07	
C	0.019REF.		0.470REF.		
D	0.037	0.041	0.95	1.05	
E	0.022	0.026	0.55	0.65	
F	0.017 REF.		0.420 REF.		
G	0.011	0.015	0.27	0.37	
H	0.001 REF.		0.030 REF.		
L	0.013	0.017	0.34	0.44	

Suggested Solder Pad Layout



## Typical Characteristics

● Electrical characteristic curves ( $T_a = 25^\circ\text{C}$ )

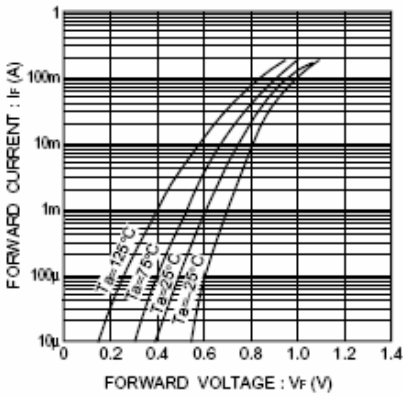


Fig.1 Forward characteristics

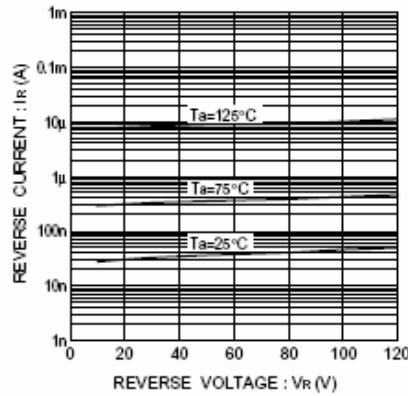


Fig.2 Reverse characteristics

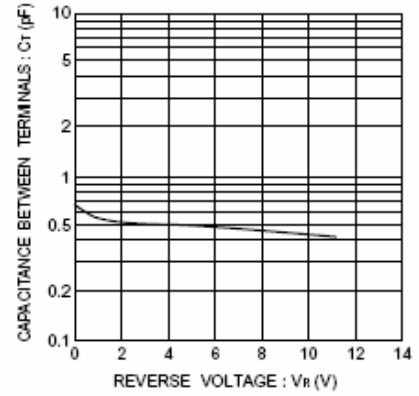


Fig.3 Capacitance between terminals

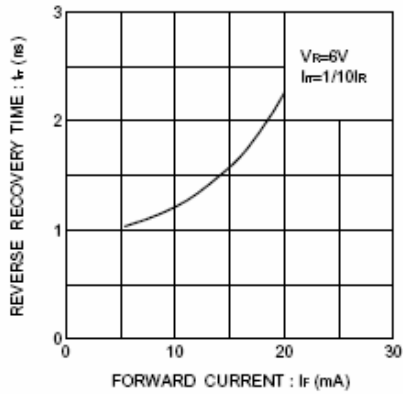


Fig.4 Reverse recovery time characteristics

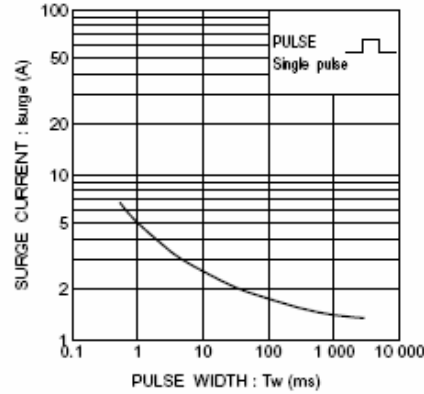


Fig.5 Surge current characteristics

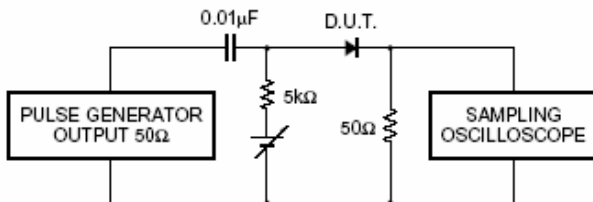


Fig.6 Reverse recovery time ( $t_r$ ) measurement circuit



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### Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 10Kpcs/Reel

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