


SPECIFICATIONS

Customer	
Product Name	Switching Doide
Oyd Part Number	1N4148
Package	SOD-323

Approved By	Checked By	Issued By
_____	_____	

Shenzhen Ouyada Electronics Co., Ltd.

Address: Galaxy Century Building located at the southwest junction of Shennan Avenue and Caitian Road, Futian District, Shenzhen Room 2412-2413 A building

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【For Customer approval Only】

Date: _____

Qualification Status: Full Restricted Rejected

Approved By	Verified By	Re-checked By	Checked By

Comments:

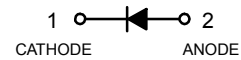
Switching diode

• Applications

High speed switching

• Features

- 1) Small surface mounting type.
- 2) High Speed.(trr =1.2ns Typ.)
- 3) High reliability with high surge current handling capability.
- 4) We declare that the material of product compliance with RoHS requirements.



• Construction

Silicon epitaxial planar

• Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Peak reverse voltage	V_{RM}	90	V
DC reverse voltage	V_R	80	V
Peak forward current	I_{FM}	225	mA
Mean rectifying current	I_O	100	mA
Surge current (1s)	I_{surge}	500	mA
Junction temperature	T_J	125	°C
Storage temperature	T_{stg}	-55~+125	°C

• Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditons
Forward voltage	V_F	-	-	1.2	V	$I_F=100mA$
Reverse current	I_R	-	-	0.1	μA	$V_R=80V$
Capacitance between terminals	C_T	-	-	3.0	pF	$V_R=0.5V, f=1MHz$
Reverse recovery time	t_{rr}	-	-	4	ns	$V_R=6V, I_F=10mA, R_L=100\Omega$

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

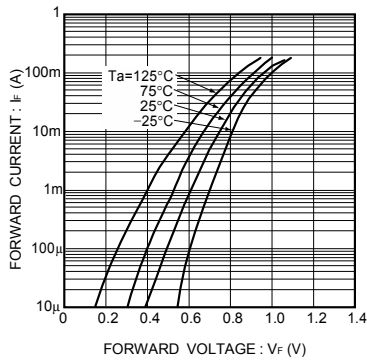


Fig.1 Forward characteristics

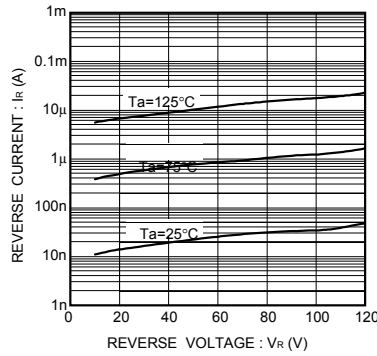


Fig.2 Reverse characteristics

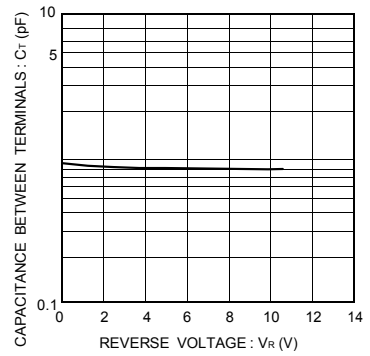


Fig.3 Capacitance between terminals characteristics

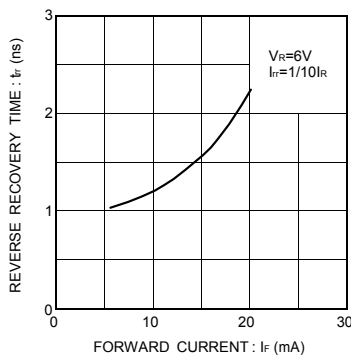


Fig.4 Reverse recovery time characteristics

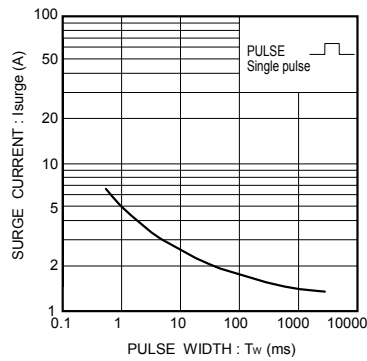


Fig.5 Surge current characteristics

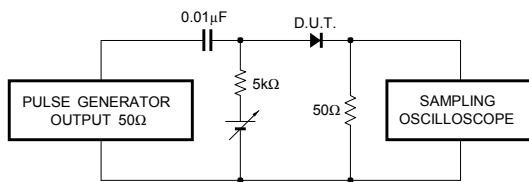


Fig.6 Reverse recovery time (t_r) measurement circuit