


# SPECIFICATIONS

<b>Customer</b>	
<b>Product Name</b>	稳压二极管
<b>Oyd Part</b>	OYD1V0-OYD75V
<b>Package</b>	LL-34

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

**Tel:** 0086-755-82793361 83951116 **Fax:** 0086-755-83951115 **E-Mail:**oyd@szoyd.com

**【For Customer approval Only】** Date: \_\_\_\_\_

Qualification Status:  Full  Restricted  Rejected

Approved By	Verified By	Re-checked By	Checked By

Comments: \_\_\_\_\_

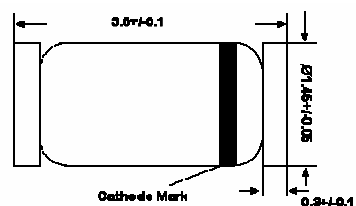
# OYD1V...OYD75V

## Silicon Epitaxial Planar Zener Diodes

in MiniMELF case especially for automatic insertion.  
The Zener voltages are graded according to the international E24 standard. Smaller voltage tolerances and higher Zener voltages are upon request.

These diodes are also available in DO-35 case with the type designation BZX55C...

LL-34



Glass case MiniMELF  
Dimensions in mm

### Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Power Dissipation	$P_{\text{tot}}$	500 <sup>1)</sup>	mW
Junction Temperature	$T_j$	175	$^\circ\text{C}$
Storage Temperature Range	$T_{\text{stg}}$	- 55 to + 175	$^\circ\text{C}$

<sup>1)</sup> Valid provided that electrodes are kept at ambient temperature

### Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient Air	$R_{\text{thA}}$	0.3 <sup>1)</sup>	K/mW
Forward Voltage at $I_F = 100\text{ mA}$	$V_F$	1	V

<sup>1)</sup> Valid provided that electrodes are kept at ambient temperature



# OYD1V...OYD75V

## Characteristics at $T_a = 25\text{ }^\circ\text{C}$

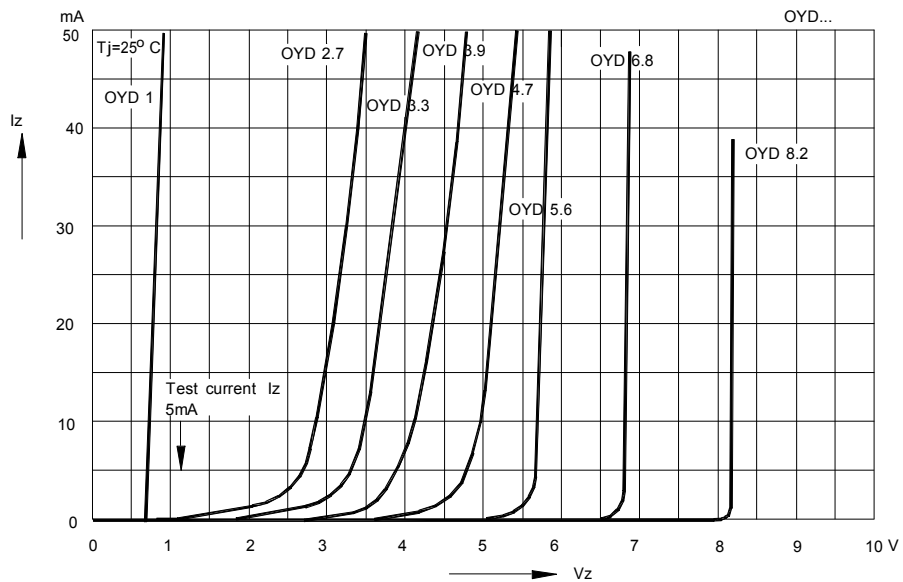
Type	Zener Voltage Range <sup>1)</sup>			Dynamic Resistance			Reverse Leakage Current			Temp. Coefficient of Zener Voltage TKvz (%/K)
	$V_{Znom}$	$V_{ZT}$	at $I_{ZT}$	$Z_{ZT}$	$Z_{ZK}$	at $I_{ZK}$	$T_a = 25\text{ }^\circ\text{C}$	$T_a = 125\text{ }^\circ\text{C}$	at $V_R$	
	(V)	(V)	(mA)	Max. ( $\Omega$ )	Max. ( $\Omega$ )	(mA)	Max. ( $\mu\text{A}$ )	Max. ( $\mu\text{A}$ )	(V)	
OYD1V0	0.75	0.7...0.8	5	8	50	1	-	-	-	-0.26...-0.23
OYD2V0	2	1.8...2.15	5	85	600	1	100	200	1	-0.09...-0.06
OYD2V2	2.2	2.08...2.33	5	85	600	1	75	160	1	-0.09...-0.06
OYD2V4	2.4	2.28...2.56	5	85	600	1	50	100	1	-0.09...-0.06
OYD2V7	2.7	2.5...2.9	5	85	600	1	10	50	1	-0.09...-0.06
OYD3V0	3	2.8...3.2	5	85	600	1	4	40	1	-0.08...-0.05
OYD3V3	3.3	3.1...3.5	5	85	600	1	2	40	1	-0.08...-0.05
OYD3V6	3.6	3.4...3.8	5	85	600	1	2	40	1	-0.08...-0.05
OYD3V9	3.9	3.7...4.1	5	85	600	1	2	40	1	-0.08...-0.05
OYD4V3	4.3	4...4.6	5	75	600	1	1	20	1	-0.06...-0.03
OYD4V7	4.7	4.4...5	5	60	600	1	0.5	10	1	-0.05...+0.02
OYD5V1	5.1	4.8...5.4	5	35	550	1	0.1	2	1	-0.02...+0.02
OYD5V6	5.6	5.2...6	5	25	450	1	0.1	2	1	-0.05...+0.05
OYD6V2	6.2	5.8...6.6	5	10	200	1	0.1	2	2	0.03...0.06
OYD6V8	6.8	6.4...7.2	5	8	150	1	0.1	2	3	0.03...0.07
OYD7V5	7.5	7...7.9	5	7	50	1	0.1	2	5	0.03...0.07
OYD8V2	8.2	7.7...8.7	5	7	50	1	0.1	2	6.2	0.03...0.08
OYD9V1	9.1	8.5...9.6	5	10	50	1	0.1	2	6.8	0.03...0.09
OYD10V	10	9.4...10.6	5	15	70	1	0.1	2	7.5	0.03...0.1
OYD11V	11	10.4...11.6	5	20	70	1	0.1	2	8.2	0.03...0.11
OYD12V	12	11.4...12.7	5	20	90	1	0.1	2	9.1	0.03...0.11
OYD13V	13	12.4...14.1	5	26	110	1	0.1	2	10	0.03...0.11
OYD15V	15	13.8...15.6	5	30	110	1	0.1	2	11	0.03...0.11
OYD16V	16	15.3...17.1	5	40	170	1	0.1	2	12	0.03...0.11
OYD18V	18	16.8...19.1	5	50	170	1	0.1	2	13	0.03...0.11
OYD20V	20	18.8...21.2	5	55	220	1	0.1	2	15	0.03...0.11
OYD22V	22	20.8...23.3	5	55	220	1	0.1	2	16	0.04...0.12
OYD24V	24	22.8...25.6	5	80	220	1	0.1	2	18	0.04...0.12
OYD27V	27	25.1...28.9	5	80	220	1	0.1	2	20	0.04...0.12
OYD30V	30	28...32	5	80	220	1	0.1	2	22	0.04...0.12
OYD33V	33	31...35	5	80	220	1	0.1	2	24	0.04...0.12
OYD36V	36	34...38	5	80	220	1	0.1	2	27	0.04...0.12
OYD39V	39	37...41	2.5	90	500	0.5	0.1	5	30	0.04...0.12
OYD43V	43	40...46	2.5	90	500	0.5	0.1	5	33	0.04...0.12
OYD47V	47	44...50	2.5	110	600	0.5	0.1	5	36	0.04...0.12
OYD51V	51	48...54	2.5	125	700	0.5	0.1	10	39	0.04...0.12
OYD56V	56	52...60	2.5	135	700	0.5	0.1	10	43	0.04...0.12
OYD62V	62	58...66	2.5	150	1000	0.5	0.1	10	47	0.04...0.12
OYD68V	68	64...72	2.5	200	1000	0.5	0.1	10	51	0.04...0.12
OYD75V	75	70...79	2.5	250	1000	0.5	0.1	10	56	0.04...0.12

<sup>1)</sup> Tested with pulses  $t_p = 20\text{ ms}$ .

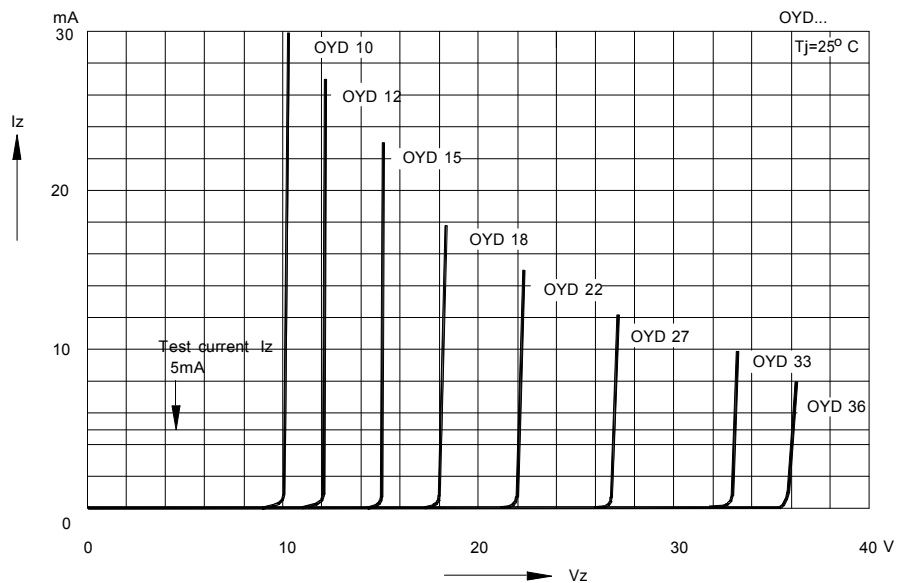
<sup>2)</sup> The ZMM1 is a silicon diode with operation in forward direction. Hence, the index of all parameters should be "F" instead of "Z". Connect the cathode electrode to the negative pole.



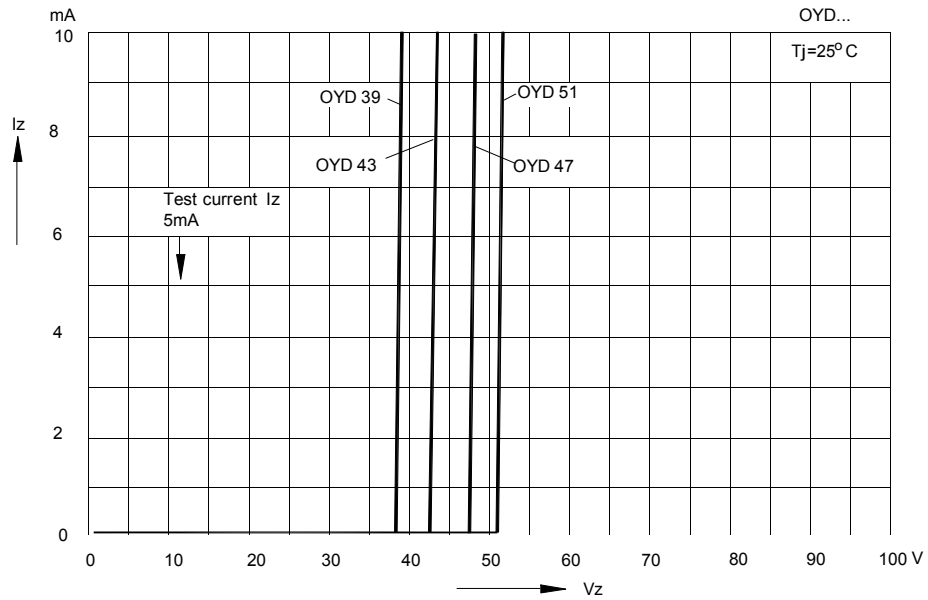
Breakdown characteristics  
 $T_j = \text{constant}$  (pulsed)



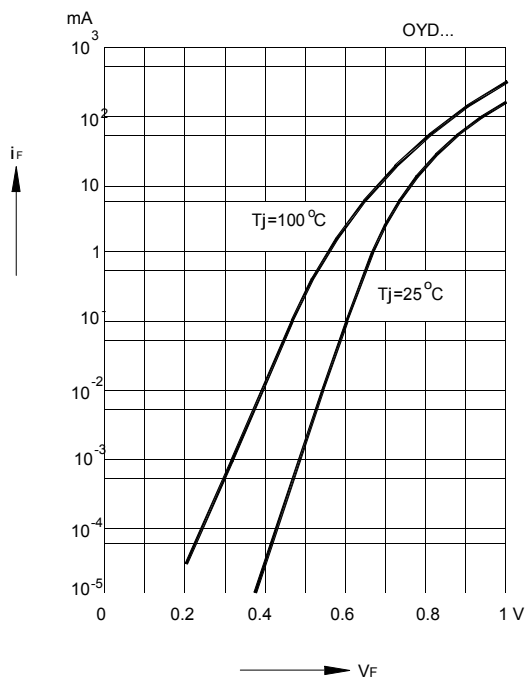
Breakdown characteristics  
 $T_j = \text{constant}$  (pulsed)



Breakdown characteristics  
 $T_j = \text{constant}$  (pulsed)



Forward characteristics



Admissible power dissipation versus ambient temperature  
 Valid provided that electrodes are kept at ambient temperature.

