


# SPECIFICATIONS

<b>Customer</b>	
<b>Product Name</b>	SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER
<b>Oyd Part</b>	OYD22-OYD210
<b>Package</b>	SOD-123

Approved By	Checked By	Issued By
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## 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:

\_\_\_\_\_

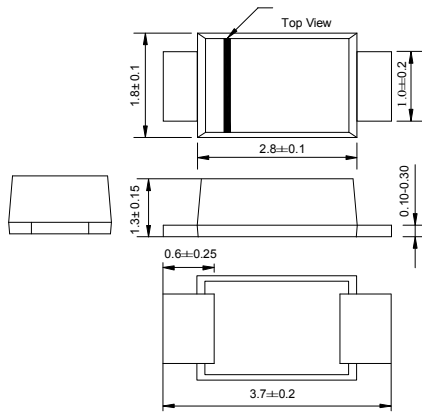


# OYD22 THRU OYD210

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 100 Volts Forward Current - 2.0 Ampere

### SOD-123FL



Dimensions in millimeters

### FEATURES

- ◆ Flammability Classification 94V-0
- ◆ Metal silicon junction, majority carrier conduction
- ◆ Low power loss, high efficiency
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed:  
250°C/10 seconds, 0.375" (9.5mm) lead length,  
5 lbs. (2.3kg) tension

### MECHANICAL DATA

**Case:** JEDEC SOD-123FL molded plastic body

**Terminals:** Solderable per MIL-STD-750, Method 2026

**Polarity:** Color band denotes cathode end

**Mounting Position:** Any

**Weight:** 0.0007 ounce, 0.02 grams

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

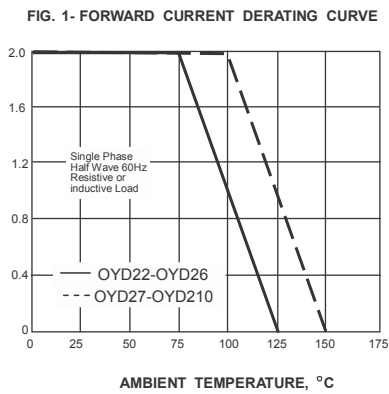
	SYMBOLS	OYD22 MDDK22	OYD23 MDDK23	OYD24 MDDK24	OYD25 MDDK25	OYD26 MDDK26	OYD27 MDDK27	OYD28 MDDK28	OYD29 MDDK29	OYD210 MDDK210	UNITS	
Maximum repetitive peak reverse voltage	$V_{RRM}$	20	30	40	50	60	70	80	90	100	VOLTS	
Maximum RMS voltage	$V_{RMS}$	14	21	28	35	42	49	56	63	70	VOLTS	
Maximum DC blocking voltage	$V_{DC}$	20	30	40	50	60	70	80	90	100	VOLTS	
Maximum average forward rectified current	$I_{(AV)}$	2.0									Amp	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	40.0									Amps	
Maximum instantaneous forward voltage at 2.0A	$V_F$	0.55			0.70			0.85			Volts	
Maximum DC reverse current $T_A=25\text{ C}$ at rated DC blocking voltage $T_A=100\text{ C}$	$I_R$	0.5					10.0					mA
Typical junction capacitance (NOTE 1)	$C_J$	220				80						pF
Operating junction temperature range	$T_J$	-65 to +125					-65 to +150					C
Storage temperature range	$T_{STG}$	-65 to +150										C

**Note:** 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

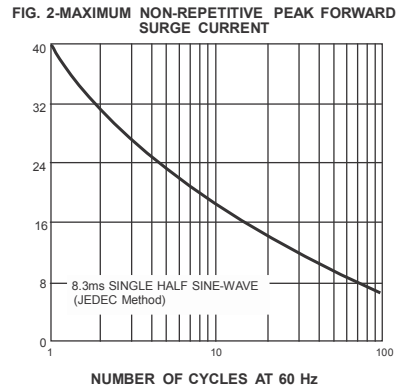


# RATINGS AND CHARACTERISTIC CURVES OYD22 THRU OYD210

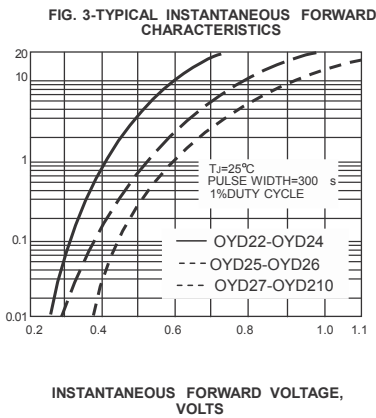
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES



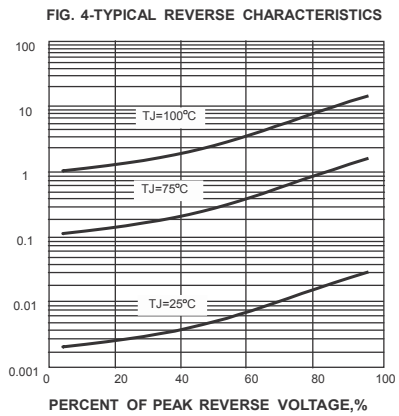
PEAK FORWARD SURGE CURRENT, AMPERES



INSTANTANEOUS FORWARD CURRENT, AMPERES



INSTANTANEOUS REVERSE CURRENT, MILLIAMPERES



JUNCTION CAPACITANCE, pF

