


# SPECIFICATIONS

<b>Customer</b>	
<b>Product Name</b>	SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS
<b>Oyd Part</b>	OYD32-OYD310
<b>Package</b>	SMA

Approved By	Checked By	Issued By
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## Shenzhen Ouyada Electronics Co., Ltd.

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

Qualification Status:  Full  Restricted  Rejected

Approved By	Verified By	Re-checked By	Checked By

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



# OYD32 thru OYD310

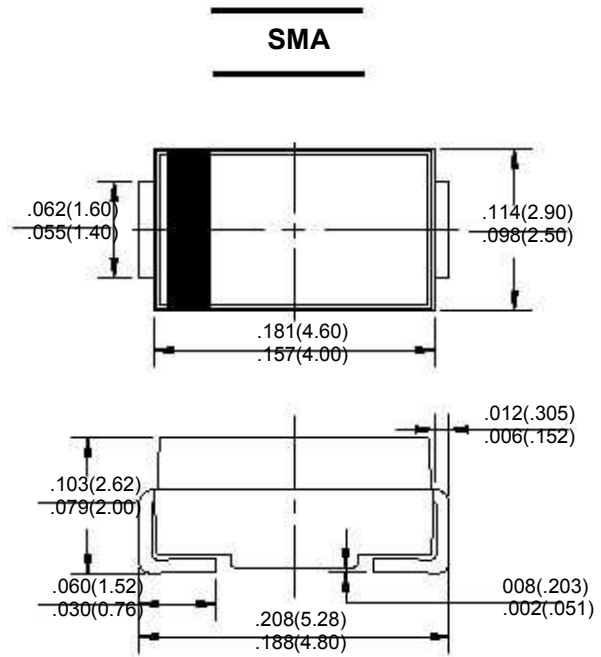
<b>SURFACE MOUNT</b> <b>SCHOTTKY BARRIER RECTIFIERS</b>	<b>REVERSE VOLTAGE - 20 to 100 Volts</b> <b>FORWARD CURRENT - 3.0 Amperes</b>
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### FEATURES

- For surface mounted applications
- Metal-Semiconductor junction with guarding
- Epitaxial construction
- Very low forward voltage drop
- High current capability
- Plastic material has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.

### MECHANICAL DATA

- Case: Molded Plastic
- Polarity: Indicated by cathode band
- Weight: 0.002 ounces, 0.064 grams



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	OYD32	OYD33	OYD34	OYD35	OYD36	OYD38	OYD310	UNIT	
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	50	60	80	100	V	
Maximum RMS Voltage	VRMS	14	21	28	35	42	56	70	V	
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	80	100	V	
Maximum Average Forward Rectified Current @TL=100 °C	I(AV)	3.0							A	
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed On Rated Load (JEDEC Method)	IFSM	80							A	
Maximum Forward Voltage at 2.9A DC	VF	0.45	0.55	0.6	0.7		0.85		V	
Maximum DC Reverse Current @Tj=25 °C at Rated DC Blocking Voltage @Tj=100 °C	IR					1.0	20			mA
Typical Junction Capacitance (Note1)	CJ					250			pF	
Typical Thermal Resistance (Note2)	RθJL					10			°C/W	
Typical Thermal Resistance (Note3)	RθJA					50			°C/W	
Operating Temperature Range	TJ					-55 to + 150			°C	
Storage Temperature Range	TSTG					-55 to + 175			°C	

NOTES: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

2. Thermal resistance junction to lead.

3. Thermal resistance junction to ambient.



FIG. 1 - FORWARD CURRENT DERATING CURVE

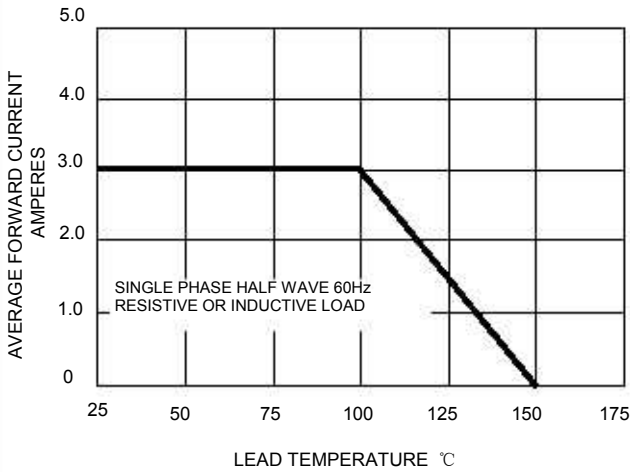


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

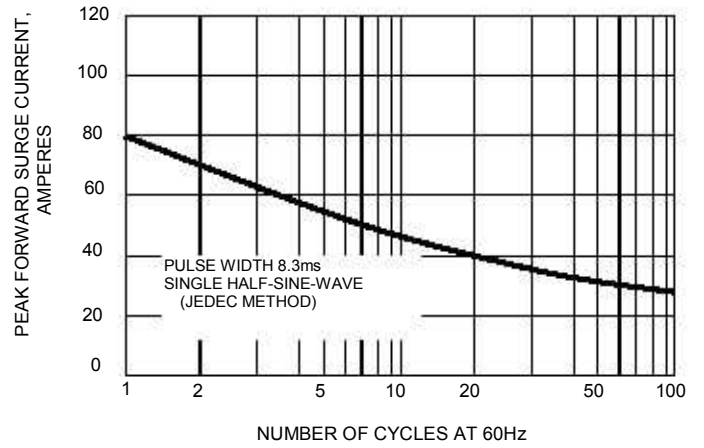


FIG.3-TYPICAL FORWARD CHARACTERISTICS

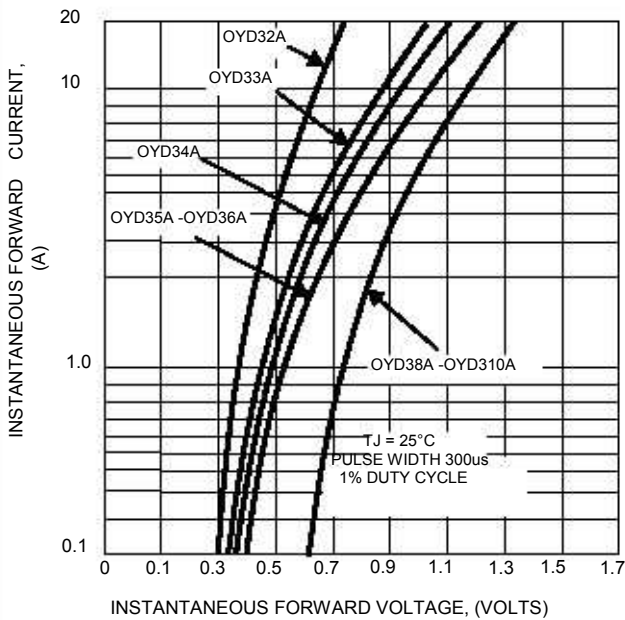


FIG.4-TYPICAL JUNCTION CAPACITANCE

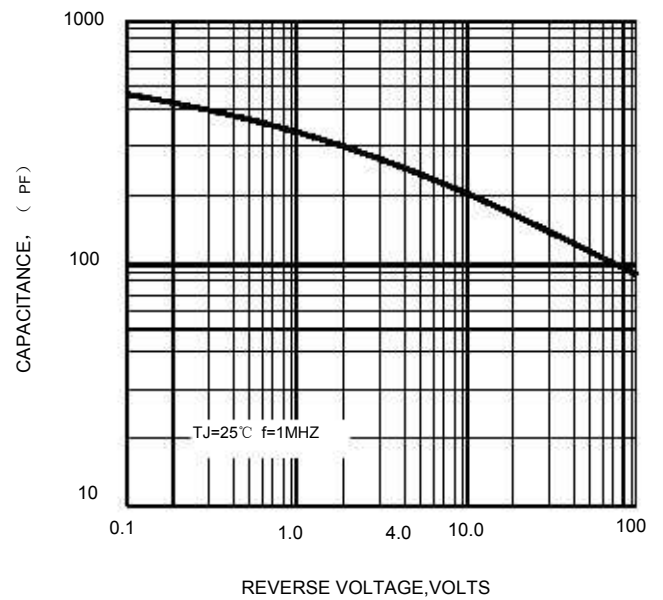


FIG.5-TYPICAL REVERSE CHARACTERISTICS

