


SPECIFICATIONS

Customer	
Product Name	SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER
Oyd Part	OYD32-OYD310
Package	SOD-123

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

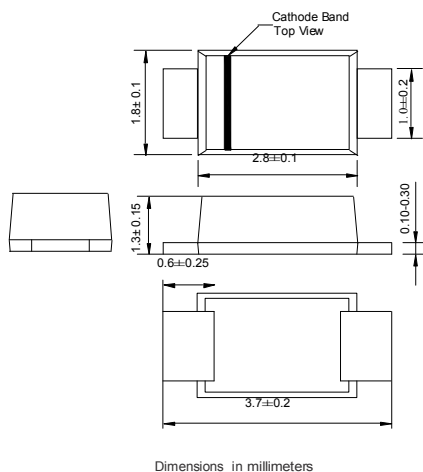
Comments: _____

OYD32 THRU OYD310

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 100 Volts Forward Current - 3.0 Ampere

SOD-123FL



FEATURES

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Metal silicon junction, majority carrier conduction
- ◆ Low power loss, high efficiency
- ◆ High forward surge current capability
- ◆ 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: Plated axial leads, 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%.

MDD Catalog Number	SYMBOLS	OYD32	OYD33	OYD34	OYD35	OYD36	OYD37	OYD38	OYD39	OYD310	UNITS	
		MDDK32	MDDK33	MDDK34	MDDK35	MDDK36	MDDK37	MDDK38	MDDK39	MDDK310		
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	$I_{(AV)}$	3.0									Amp	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	80.0									Amps	
Maximum instantaneous forward voltage at 3.0A	V_F	0.52	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	
Operating junction temperature range	T_J	-50 to +125					-50 to +150				C	
Storage temperature range	T_{STG}	-50 to +150										C

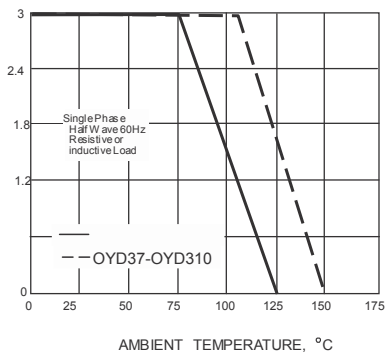


SHEN ZHEN OUYADA ELECTRONICS CO.,LTD.

RATINGS AND CHARACTERISTIC CURVES OYD32 THRU OYD310

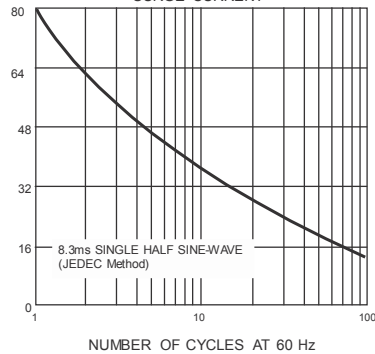
AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



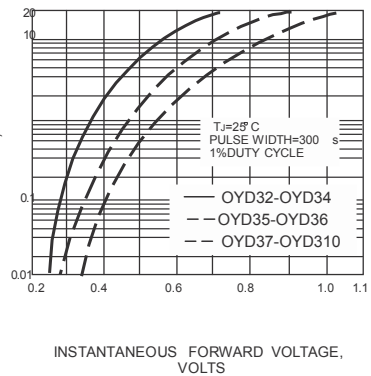
PEAK FORWARD SURGE CURRENT,
AMPERES

FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



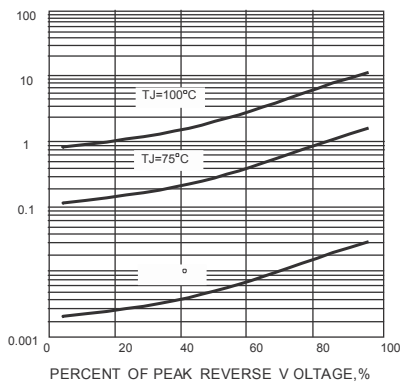
INSTANTANEOUS FORWARD CURRENT, AMPERES

FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



INSTANTANEOUS REVERSE CURRENT, MILLIAMPERES

FIG. 4-TYPICAL REVERSE CHARACTERISTICS



SHEN ZHEN OUYADA ELECTRONICS CO.,LTD.