


SPECIFICATIONS

| | |
|---------------------|-----------------|
| Customer | |
| Product Name | 整流二极管 |
| Oyd Part | OYDUS1A-OYDUS1M |
| Package | DO-214AC |

| 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

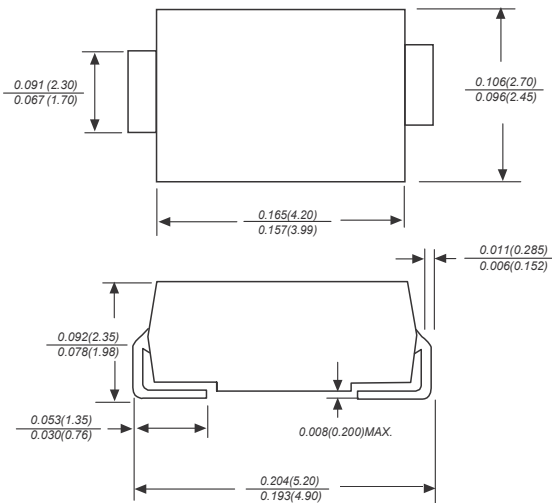
| Approved By | Verified By | Re-checked By | Checked By |
|-------------|-------------|---------------|------------|
| | | | |

Comments: _____



OYDUS1A THRU OYDUS1M

DO-214AC



Dimensions in inches and (millimeters)

FEATURES

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ Low reverse leakage
- ◆ Built-in strain relief, ideal for automated placement
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed: 250°C/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC DO-214AC molded plastic body
Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Mounting Position: Any
Weight: 0.003 ounce, 0.093 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%.

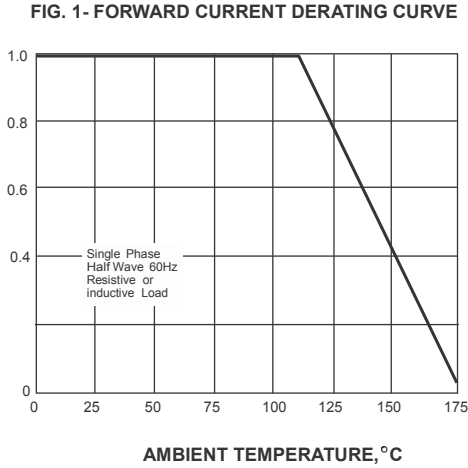
| | SYMBOLS | OYDUS1A | OYDUS1B | OYDUS1D | OYDUS1G | OYDUS1J | OYDUS1K | OYDUS1M | UNITS |
|---|----------------|-------------|---------|---------|---------|---------|---------|---------|---------------|
| Maximum repetitive peak reverse voltage | V_{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | VOLTS |
| Maximum RMS voltage | V_{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | VOLTS |
| Maximum DC blocking voltage | V_{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | VOLTS |
| Maximum average forward rectified current at $T_L=110\text{ C}$ | $I_{(AV)}$ | 1.0 | | | | | | | Amp |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | I_{FSM} | 30.0 | | | | | | | Amps |
| Maximum instantaneous forward voltage at 1.0A | V_F | 1.1 | | | | | | | Volts |
| Maximum DC reverse current $T_A=25\text{ C}$ at rated DC blocking voltage $T_A=100\text{ C}$ | I_R | 5.0 50.0 | | | | | | | μA |
| Typical junction capacitance (NOTE 1) | C_J | 15.0 | | | | | | | pF |
| Typical thermal resistance (NOTE 2) | R_{qJA} | 75.0 | | | | | | | C/W |
| Operating junction and storage temperature range | T_J, T_{STG} | -65 to +175 | | | | | | | C |

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
 2. P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

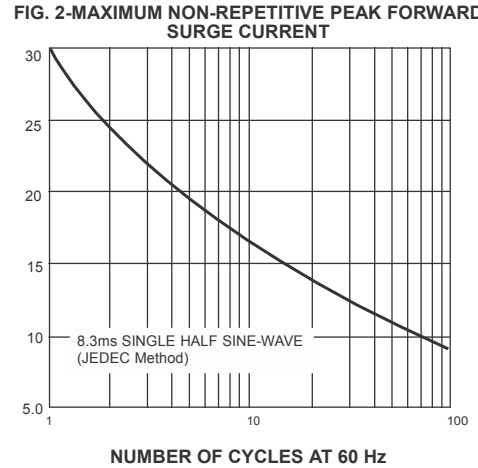


OYDUS1A THRU OYDUS1M

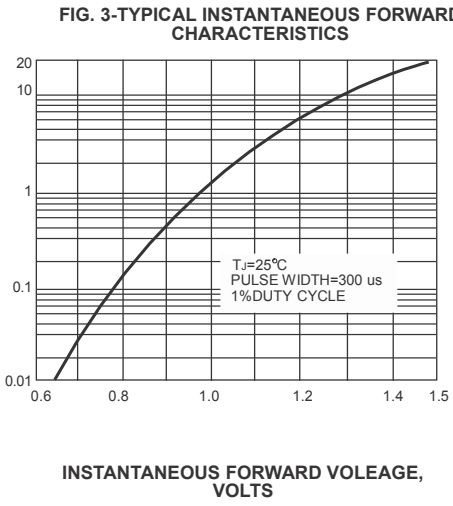
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES



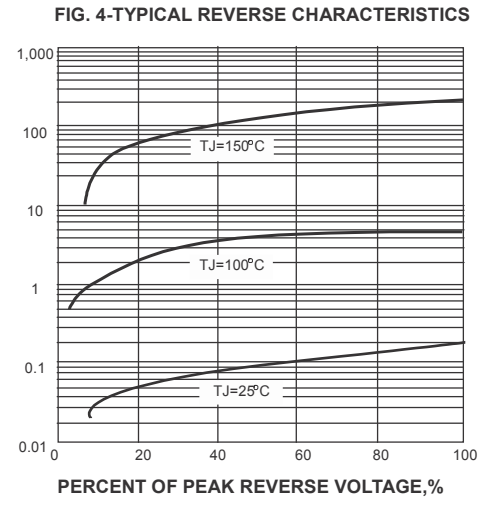
PEAK FORWARD SURGE CURRENT, AMPERES



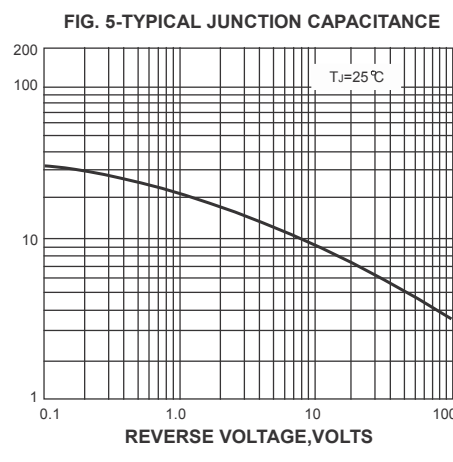
INSTANTANEOUS FORWARD CURRENT, AMPERES



INSTANTANEOUS REVERSE CURRENT, MICROAMPERES



JUNCTION CAPACITANCE, pF



TRANSIENT THERMAL IMPEDANCE, °C/W

