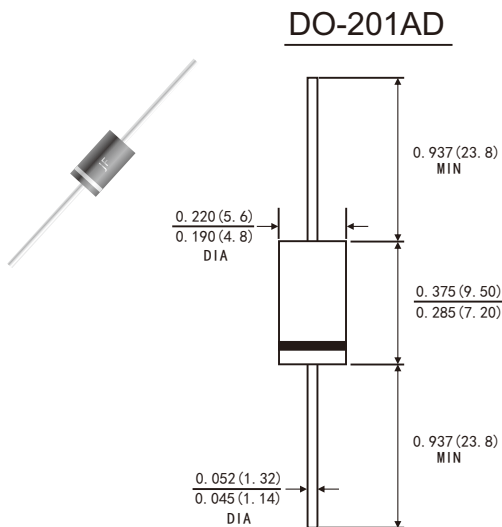


FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Low forward voltage drop
- High current capability, High reliability
- Low power loss, high efficiency
- High surge current capability
- High speed switching, Low leakage
- High temperature soldering guaranteed:260°C/10 seconds at terminals
- Component in accordance to RoHS 2011/65/EU

MECHANICAL DATA

- Case: JEDED DO-201AD molded plastic body
- Lead: Plated axial leads, solderable per MIL-STD-750,method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.042ounce, 1.19 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%.)

| | Symbols | UF 5401 | UF 5402 | UF 5403 | UF 5404 | UF 5405 | UF 5406 | UF 5407 | UF 5408 | Units |
|--|--------------------|------------|---------|---------|---------|---------|---------|---------|---------|-------------|
| Maximum Recurrent peak reverse voltage | V_{RRM} | 50 | 100 | 200 | 300 | 400 | 600 | 800 | 1000 | Volts |
| Maximum RMS Voltage | V_{RMS} | 35 | 70 | 140 | 210 | 280 | 420 | 560 | 700 | Volts |
| Maximum DC Blocking Voltage | V_{DC} | 50 | 100 | 200 | 300 | 400 | 600 | 800 | 1000 | Volts |
| Maximum Average Forward Rectified Current 0.375"(9.5mm)lead length at $T_A=55^{\circ}C$ | $I_{(AV)}$ | 3.0 | | | | | | | | Amps |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method) | I_{FSM} | 150.0 | | | | | | | | Amps |
| Maximum Instantaneous Forward Voltage at 3.0 A | V_F | 1.0 | | 1.3 | | 1.7 | | | Volts | |
| Maximum DC Reverse Current at rated DC blocking voltage | $T_A=25^{\circ}C$ | 10.0 | | | | | | | | μA |
| | $T_A=100^{\circ}C$ | 150 | | | | | | | | |
| Maximum reverse recovery time(Note1) | T_{rr} | 50 | | | | 75 | | | ns | |
| Typical junction capacitance(Note2) | C_J | 70 | | | | 50 | | | Pf | |
| Operating junction and storage temperature range | T_J | -55 to+125 | | | | | | | | $^{\circ}C$ |
| | T_{STG} | -55 to+150 | | | | | | | | |

Note: 1.Test conditions: $I_F=0.5A, I_R=1.0A, I_{RR}=0.25A$.

2.Measured at 1MHz and applied reverse voltage of 4.0 Volts.

RATINGS AND CHARACTERISTIC CURVES UF5401 THRU UF5408

FIG.1-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

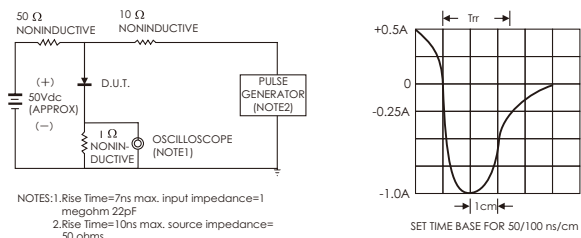


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

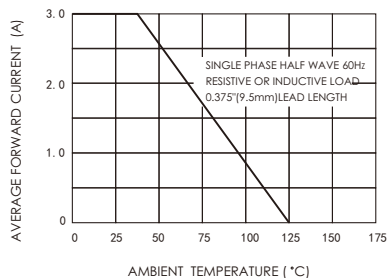


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

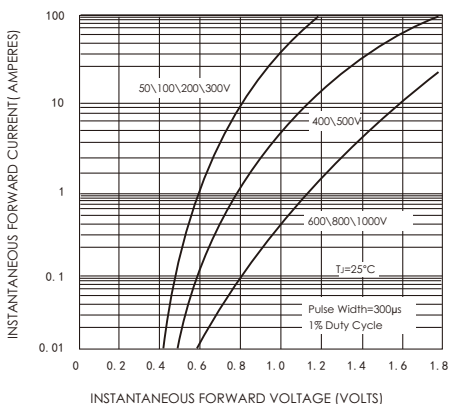


FIG.4-TYPICAL REVERSE CHARACTERISTICS

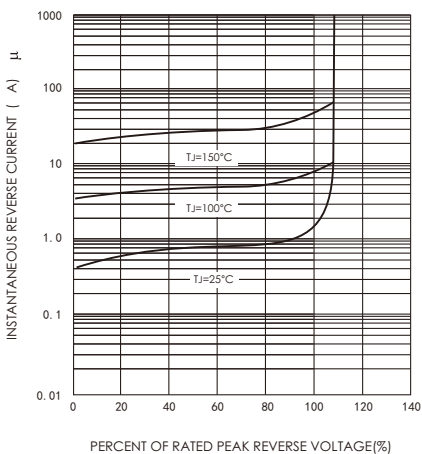


FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

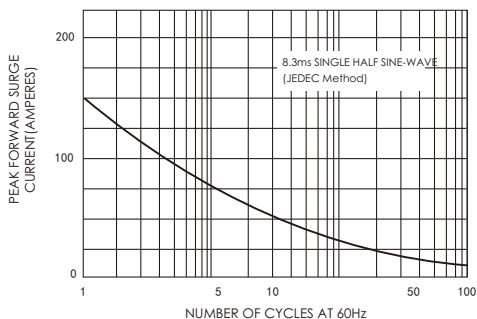


FIG.6-TYPICAL JUNCTION CAPACITANCE

