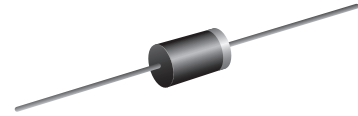


Fast Recovery Rectifier in DO-15

Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability



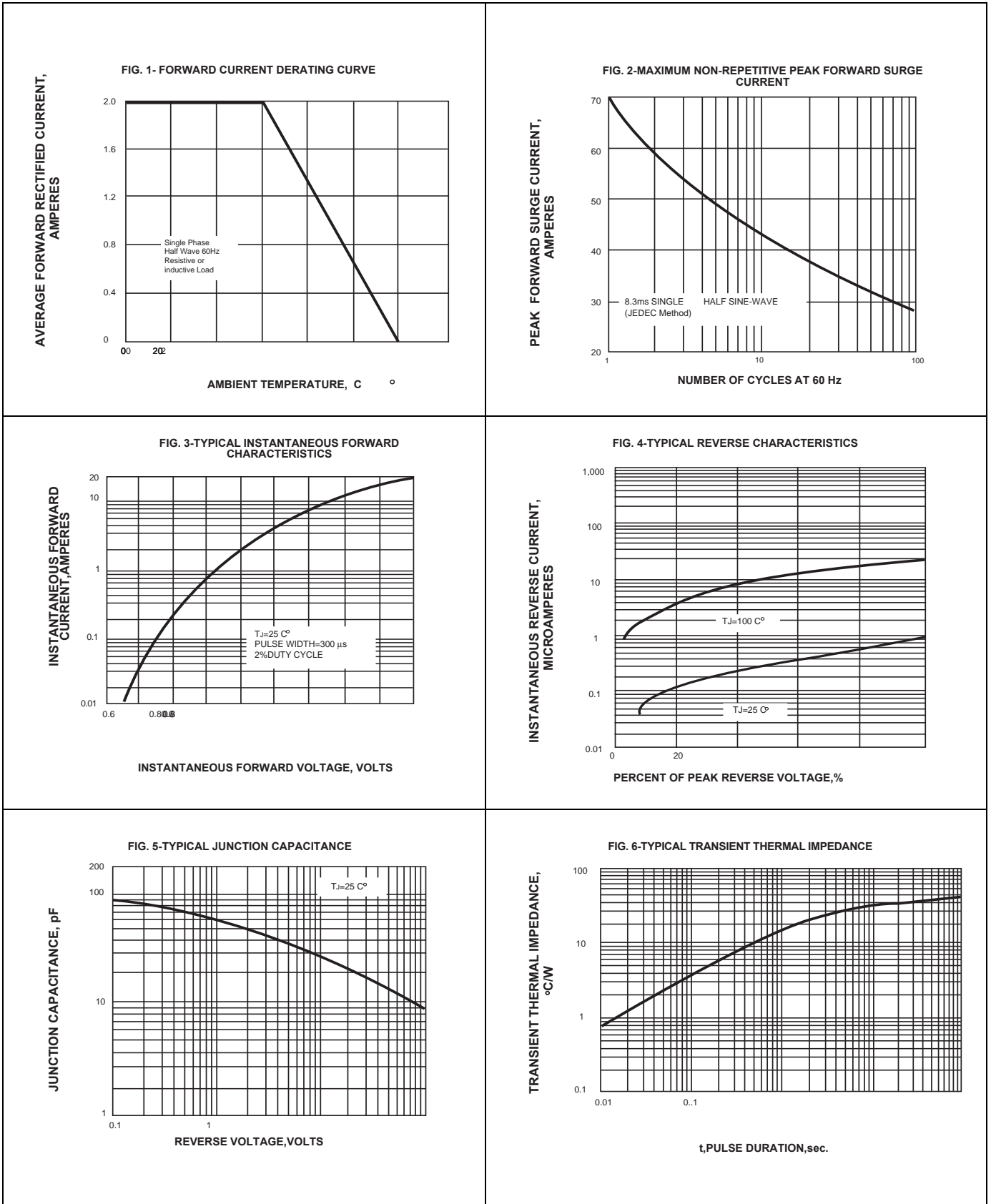
Mechanical Data

- **Case:** JEDEC DO-15 molded plastic Lead free;
RoHS compliant
- **Molding Compound Flammability Rating:**
UL 94 V-0
- **Terminals:** High temperature soldering guaranteed:
260 °C/10 sec. at terminals

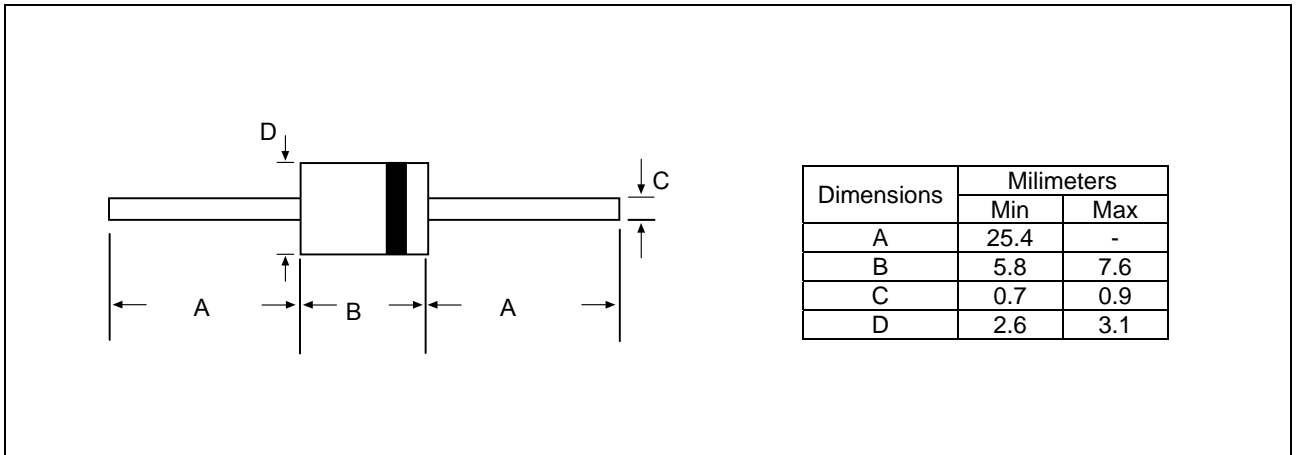
| Maximum Ratings and Electrical Characteristics | | | | | | | | | | |
|--|------------|-------------|-------|-------|-------|-------|-------|-------|-------------|----|
| Ratings at 25 °C, ambient temperature unless otherwise specified | | | | | | | | | | |
| Parameter | Symbols | FR201 | FR202 | FR203 | FR204 | FR205 | FR206 | FR207 | 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 0.375" (9.5mm) lead length at $T_A=55^{\circ}C$ | $I_{(AV)}$ | 2.0 | | | | | | | Amps | |
| Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method) | I_{FSM} | 60.0 | | | | | | | Amps | |
| Maximum instantaneous forward voltage @ 2.0A | V_F | 1.3 | | | | | | | Volts | |
| Maximum DC reverse current at rated DC blocking voltage | I_R | 5.0 100 | | | | | | | μA | |
| Maximum reverse recovery time (Note 1) | t_{rr} | 150 | | | | 250 | | 500 | | nS |
| Typical junction capacitance (Note 2) | C_J | 40 | | | | | | | pF | |
| Operating junction temperature range | T_J | -55 to +125 | | | | | | | $^{\circ}C$ | |
| Storage temperature range | T_{STG} | -55 to +150 | | | | | | | $^{\circ}C$ | |

Notes: 1. Reverse Recovery Test Conditions: $I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25A$
 2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.

Typical Characteristics ($T_{amb} = 25\text{ }^{\circ}\text{C}$ unless otherwise specified)



Package Dimensions



Ordering information

| Order code | Package | Packaging option | Base quantity | Packaging specification |
|------------------|---------|------------------|---------------|-------------------------|
| FR201 thru FR207 | DO-15 | Tape and BOX | 3000pcs | EIA STD RS-481 |

Revision history

| Date | Revision | Changes |
|-------------|----------|-----------------|
| 23-May-2020 | 1.0 | Initial release |

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