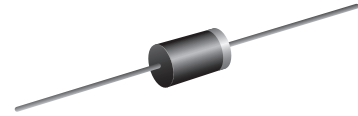


Fast Recovery Rectifier in DO-15

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

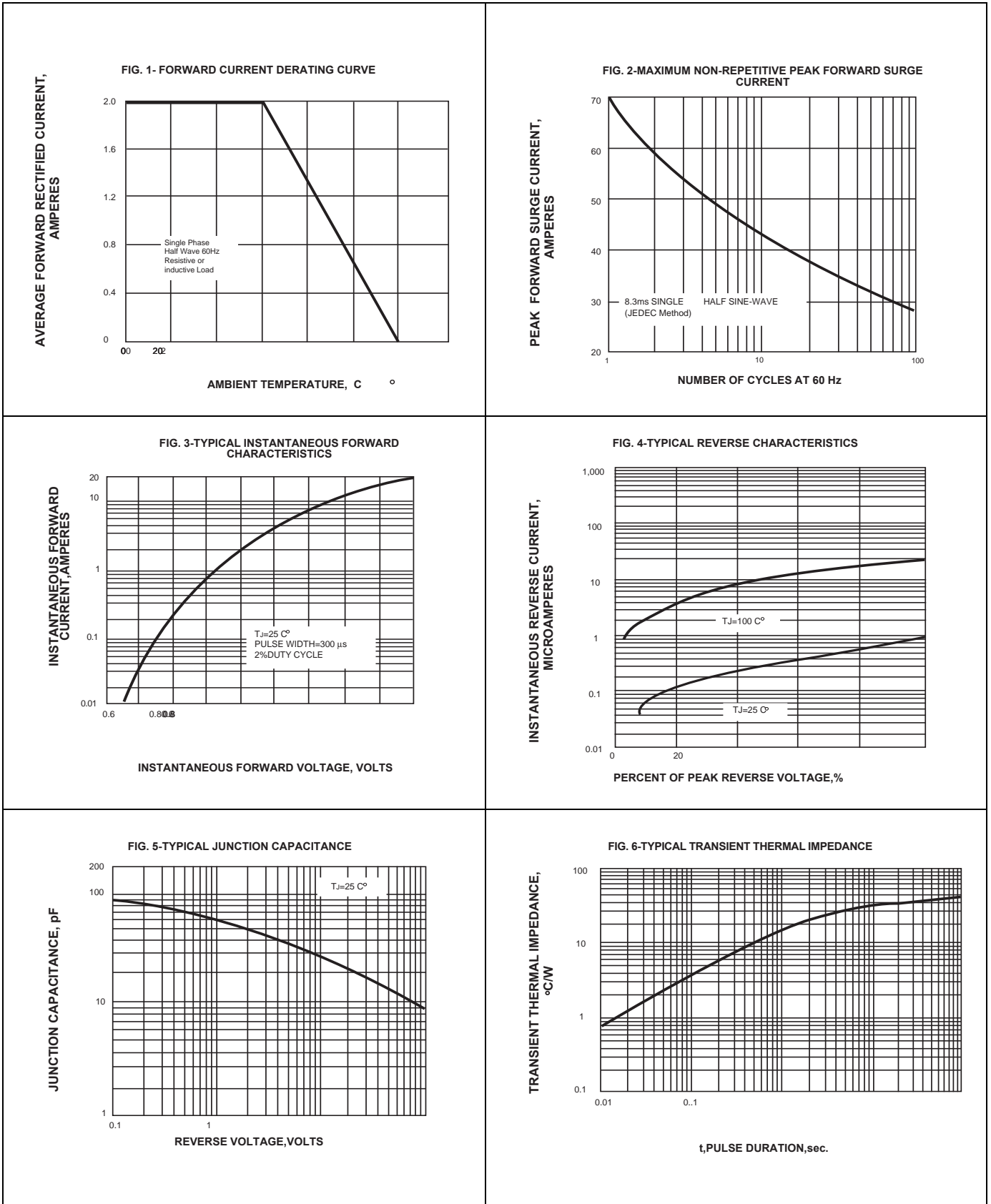
Maximum Ratings and Electrical Characteristics

Ratings at 25 °C, ambient temperature unless otherwise specified

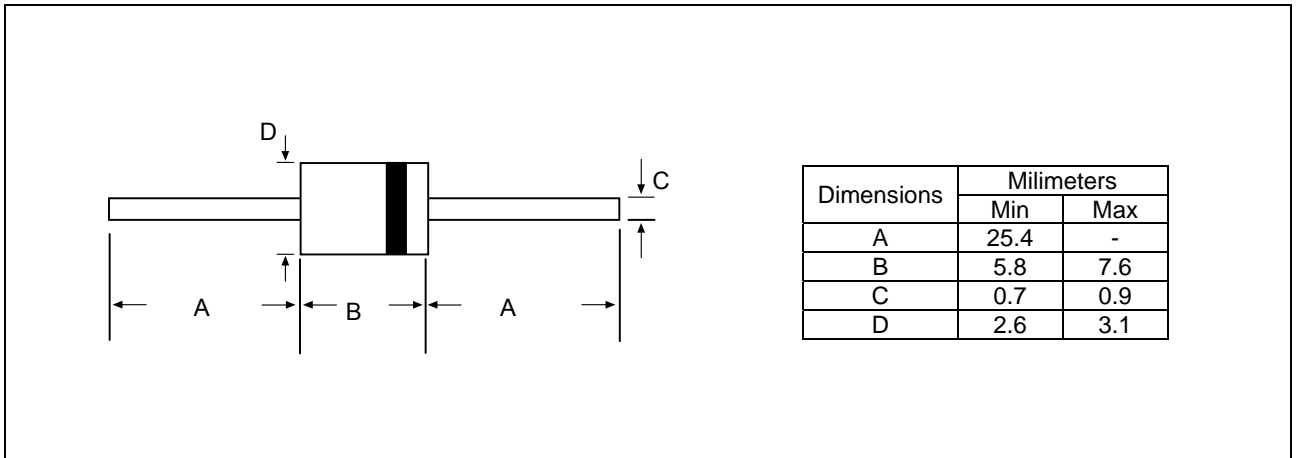
Parameter	Symbols	FR201	FR202	FR203	FR204	FR205	FR206	FR207	Units
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward 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 thur FR207	DO-15	Tape and BOX	3000pcs	EIA STD RS-481

Revision history

Date	Revision	Changes
23-May-2012	1.0	Initial release

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