



Features

- Fast switching for high efficiency
- Low cost
- Diffused junction
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0

Mechanical Data

Case	: JEDEC DO-15 molded plastic
Polarity	: Colour band denotes cathode
Weight	: 0.015 ounces, 0.4 grams
Mounting Position	: Any
Reverse Voltage	: 800 Volts
Forward Current	: 2 Ampere

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%.

Characteristics	Symbol	Values	Unit
Max. Recurrent Peak Reverse Voltage	V _{RRM}	800	V
Max. RMS Voltage	V _{RMS}	560	V
Max. DC Blocking Voltage	V _{DC}	800	V
Max. Average Forward Rectified Current @T _A = 75°C	I _(AV)	2	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	60	A
Peak Forward Voltage at 2A DC	V _F	1.3	V
Maximum DC Reverse Current @T _J = 25°C at Rated DC Blocking Voltage @T _J = 100°C	I _R	5 100	μA
Maximum Reverse Recovery Time (Note 1)	T _{rr}	500	nS
Typical Junction Capacitance (Note 2)	C _J	20	pF
Typical Thermal Resistance (Note 3)	R _{θJA}	25	°C/W
Operating Temperature Range	T _J	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

- Notes** : 1. Measured with I_F = 0.5A, I_R = 1A, I_{RR} = 0.25A
2. Measured at 1MHz and applied reverse voltage of 4V DC
3. Thermal resistance junction to ambient.
4. The typical data above is for reference only

Ratings and Characteristic Curves

FIG. 1 – FORWARD CURRENT DERATING CURVE

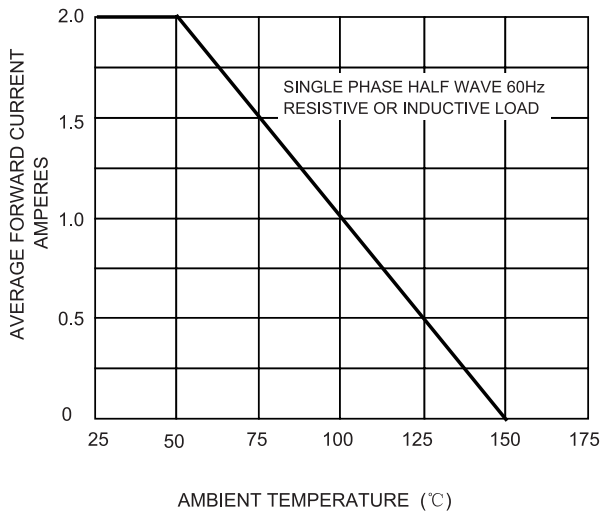


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

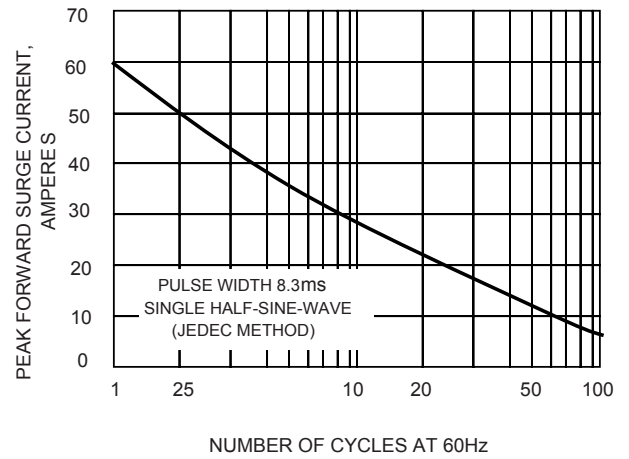


FIG. 3 – TYPICAL JUNCTION CAPACITANCE

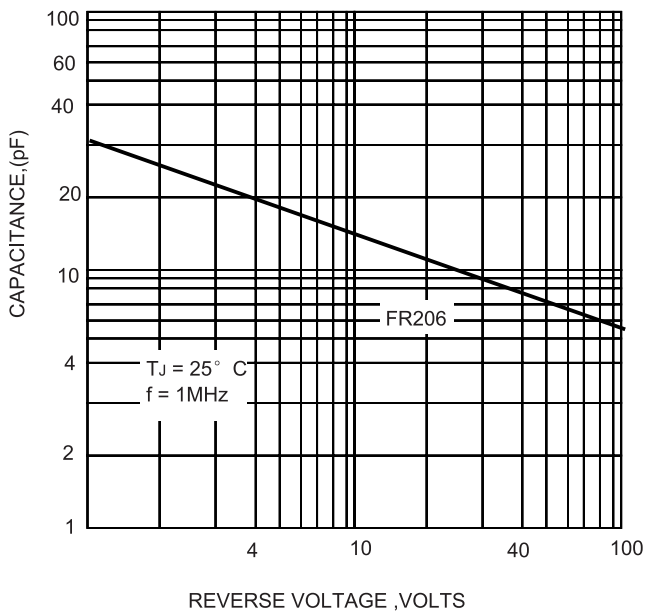
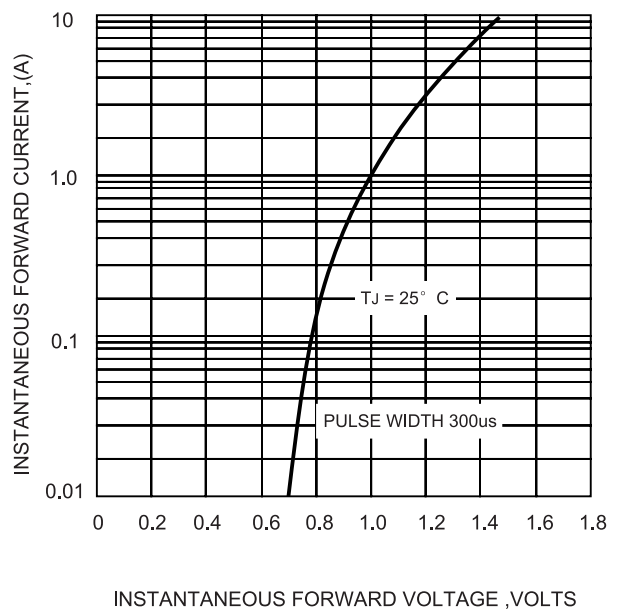
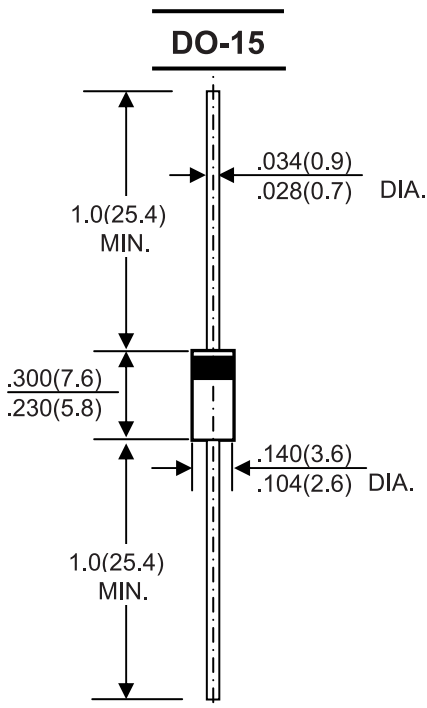


FIG.4-TYPICAL FORWARD CHARACTERISTICS



Dimensions:



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Fast Recovery Rectifier, 2A 800V, DO-15	FR206

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