



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	: 200 to 1000 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	FR203+	FR207+	Unit
Max. Recurrent Peak Reverse Voltage	V_{RRM}	200	1000	V
Max. RMS Voltage	V_{RMS}	140	700	V
Max. DC Blocking Voltage	V_{DC}	200	1000	V
Max. Average Forward Rectified Current @ $T_A = 75^\circ C$	$I_{(AV)}$	2.0		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 @ $T_J = 25^\circ C$ at Rated DC Blocking Voltage @ $T_J = 100^\circ C$	I_R	5 100		μA
Maximum Reverse Recovery Time (Note 1)	T_{rr}	150	500	nS
Typical Junction Capacitance (Note 2)	C_J	30	20	pF
Typical Thermal Resistance (Note 3)	$R_{\theta JA}$	25		$^\circ C/W$
Operating Temperature Range	T_J	-55 to +150		$^\circ C$
Storage Temperature Range	T_{STG}	-55 to +150		$^\circ C$

- 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

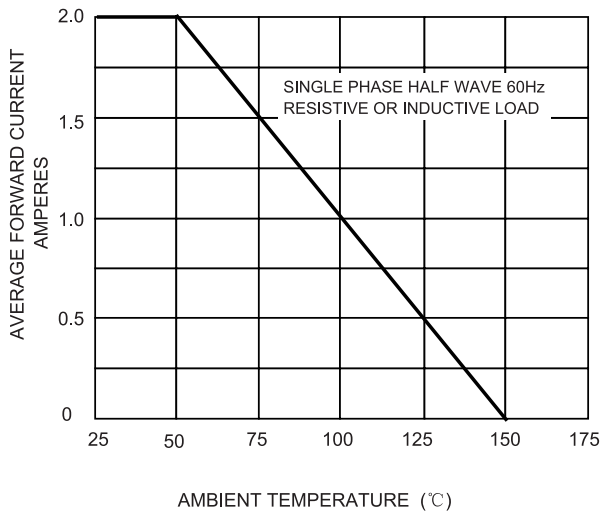


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

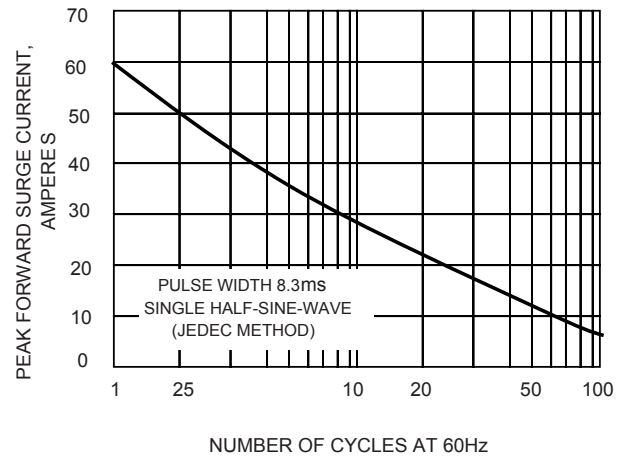


FIG. 3 – TYPICAL JUNCTION CAPACITANCE

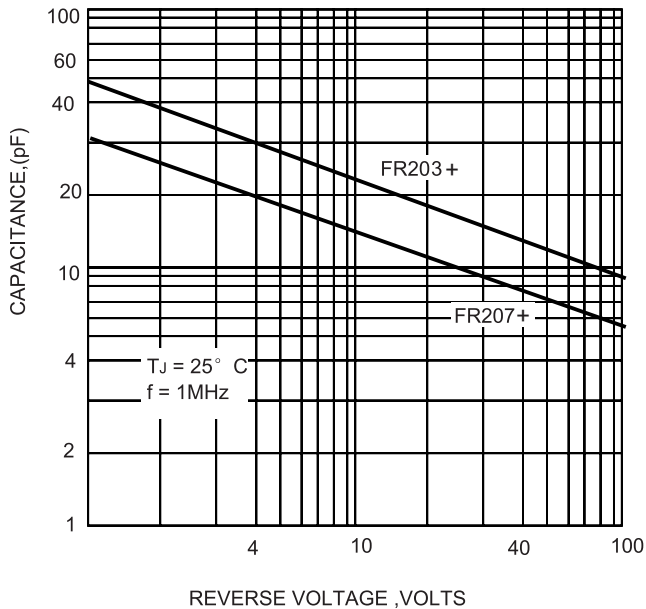
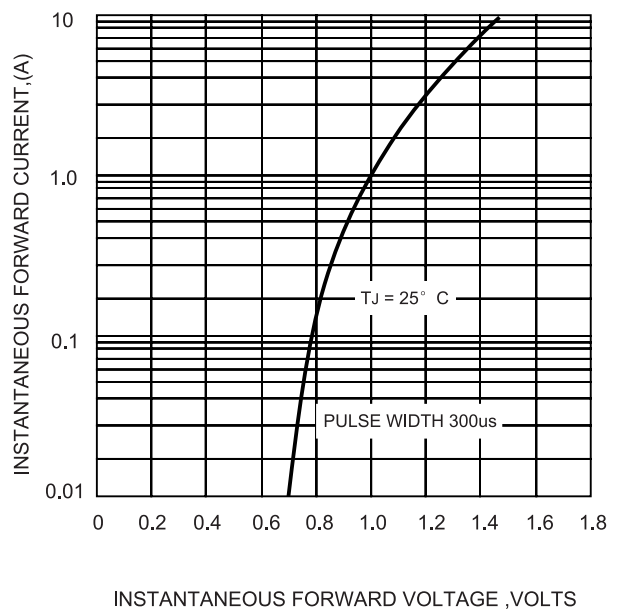
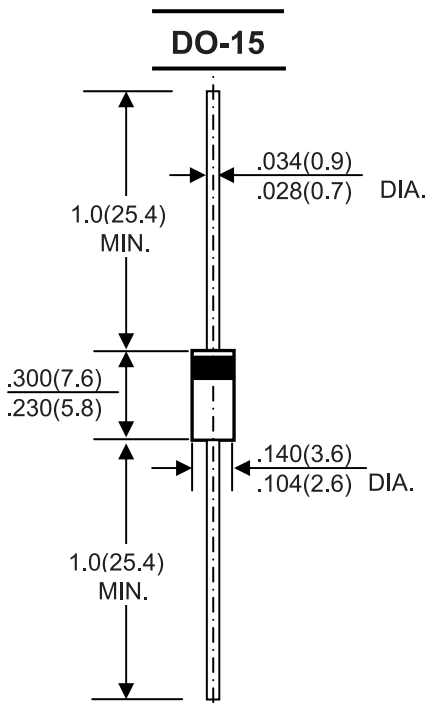


FIG.4-TYPICAL FORWARD CHARACTERISTICS



Dimensions:



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Fast Recovery Rectifiers	FR203+
	FR207+

Important Notice : This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

Newark.com/multicomp-pro
 Farnell.com/multicomp-pro
 Element14.com/multicomp-pro