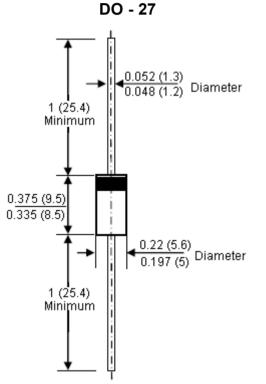
Ultra Fast Rectifier





Reverse Voltage - 200 V Forward Current - 3 Amperes



Dimensions : Inches (Millimetres)

Mechanical Data

Case	: JEDEC DO-27 moulded plastic.
Polarity	: Colour band denotes cathode.
Weight	: 0.04 oz, 1.1 g.
Mounting position	: Any.



- Diffused junction.
- Ultra fast switching for high efficiency.
- Low reverse leakage current.
- Low forward voltage drop.
- High current capability.



Ultra Fast Rectifier



Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristics	Symbol	UF3003	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	200	V
Maximum RMS Voltage	V _{RMS}	140	
Maximum DC Blocking Voltage	V _{DC}	200	
Maximum Average ForwardRectified Currentat T _A = 55°C	I _(AV)	3	A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	125	
Peak Forward Voltage at 3 A dc	V _F	1	V
Maximum DC Reverse Currentat $T_J = 25^{\circ}C$ Rated DC Blocking Voltageat $T_J = 100^{\circ}C$	I _R	5 100	μA
Maximum Reverse Recovery Time (Note 1)	T _{RR}	50	nS
Typical Junction Capacitance (Note 2)	CJ		pF
Typical Thermal Resistance (Note 3)	R _{θJA}	20	°C/W
Operating Temperature Range	TJ	-55 to +125 -55 to +150	- °C
Storage Temperature Range	T _{STG}		

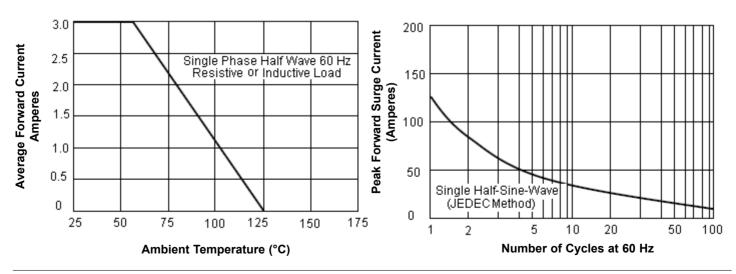
Notes : 1. Measured with I_F = 0.5 A, I_R = 1 A, I_{RR} = 0.25 A.

2. Measured at 1 MHz and applied reverse voltage of 4 V dc.

3. Thermal resistance junction to ambient.

Rating and Characteristics Curves

Forward Current Derating Curve



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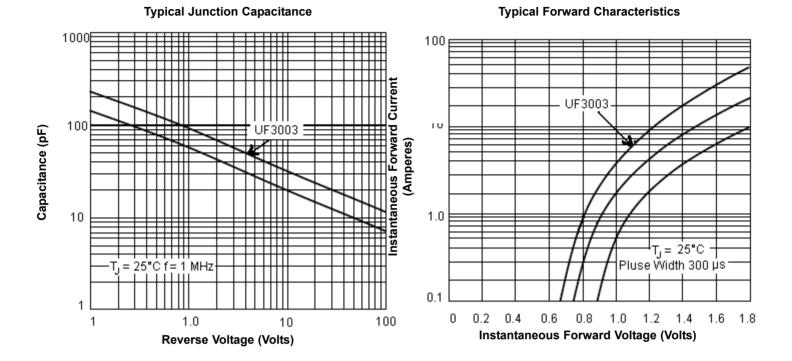


Maximum Non-Repetitive Surge Current

Ultra Fast Rectifier



Rating and Characteristics Curves



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