Ultra Fast Rectifier

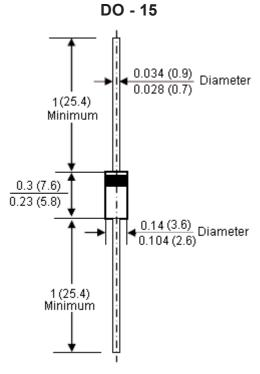




Features:

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

Reverse Voltage - 1,000 V Forward Current - 2 Amperes



Dimensions : Inches (Millimetres)

Mechanical Data

Case : JEDEC DO-15 moulded plastic.
Polarity : Colour band denotes cathode.

Weight : 0.015 oz, 0.4 g.

Mounting position : Any.

www.element14.com www.farnell.com www.newark.com



Ultra Fast Rectifier



Maximum Ratings and Electrical Characteristics

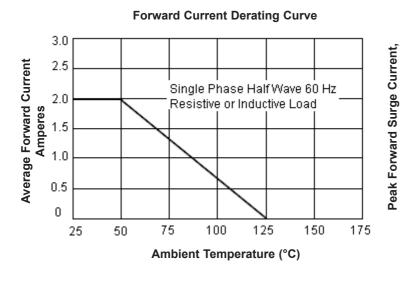
Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristics	Symbol	UF2008	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	1,000	V
Maximum RMS Voltage	V _{RMS}	700	
Maximum DC Blocking Voltage	V _{DC}	1,000	
Maximum Average Forward Rectified Current at T _A = 55°C	I (AV)	2	А
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	60	
Peak Forward Voltage at 2 A dc (Note1)	V _F	1.7	V
Maximum DC Reverse Current at $T_J = 25^{\circ}$ C Rated DC Blocking Voltage at $T_J = 100^{\circ}$ C	l _R	5 100	μА
Maximum Reverse Recovery Time (Note 1)	T _{RR}	75	nS
Typical Junction Capacitance (Note 2)	C _J	30	pF
Typical Thermal Resistance (Note 3)	$R_{ heta JA}$	25	°C/W
Operating Temperature Range	T _J	-55 to +125	- °C
Storage Temperature Range	T _{STG}	-55 to +150	

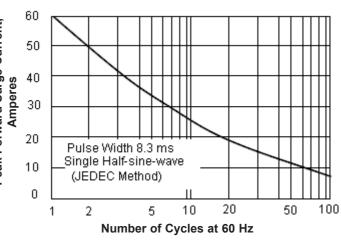
Notes : 1. Measured with $I_F = 0.5 A$, $I_R = 1 A$, $I_{RR} = 0.25 A$.

- 2. Measured at 1 MHz and applied reverse voltage of 4 V dc.
- 3. Thermal resistance junction to ambient.

Rating and Characteristics Curves





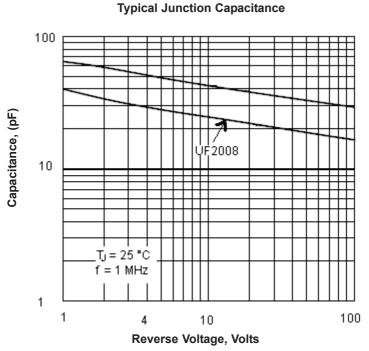


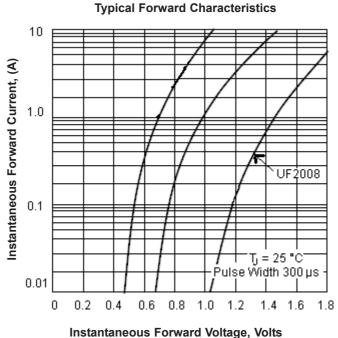


Ultra Fast Rectifier



Rating and Characteristics Curves





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