



# UF4001 THRU UF4007

## 1.0 AMP SILICON RECTIFIERS



### FEATURES

- \* Low forward voltage drop
- \* High current capability
- \* High reliability
- \* High surge current capability

### MECHANICAL DATA

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: Axial leads, solderable per MIL-STD-202, method 208 guranteed
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any
- \* Weight: 0.34 grams

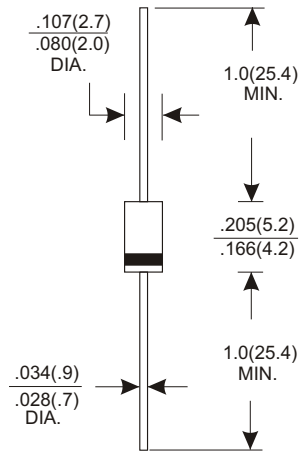
### VOLTAGE RANGE

50 to 1000 Volts

### CURRENT

1.0 Ampere

DO-41



Ratings 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%.

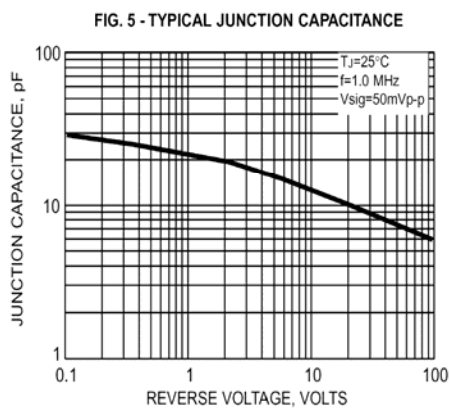
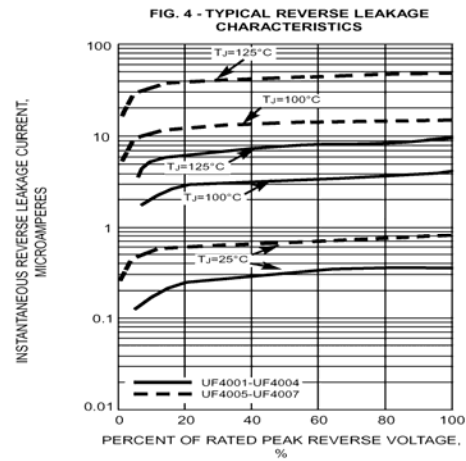
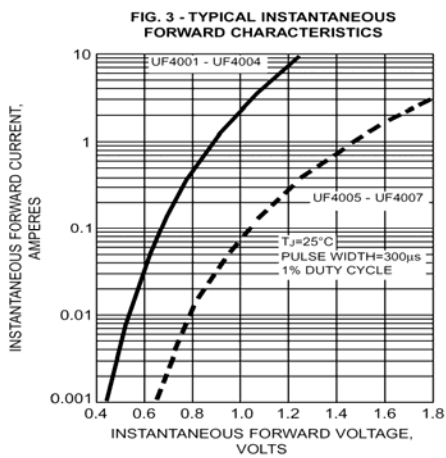
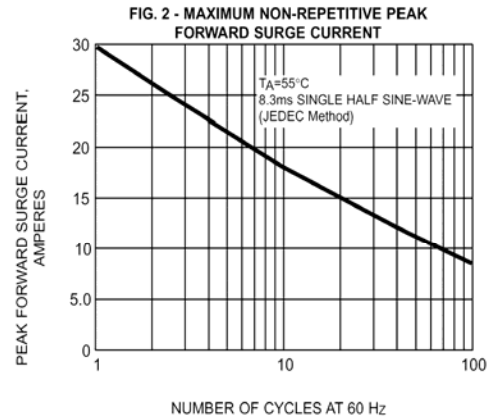
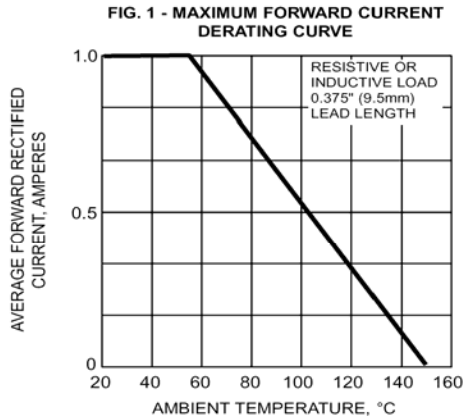
Parameter	Symbols	UF4001	UF4002	UF4003	UF4004	UF4005	UF4006	UF4007	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 0.375"(9.5mm) Lead Length at $T_A = 55^\circ C$	$I_{(AV)}$	1							A
Peak Forward Surge Current, 8.3 ms Single Half-sine -wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	30							A
Maximum Forward Voltage at 1 A DC	$V_F$		1		1.3		1.7		V
Maximum Reverse Current at Rated DC Blocking Voltage $T_A = 25^\circ C$ $T_A = 100^\circ C$	$I_R$				5				$\mu A$
					500				
Typical Junction Capacitance <sup>1)</sup>	$C_J$				17				pF
Typical Thermal Resistance <sup>2)</sup>	$R_{\theta JA}$				60				$^\circ C/W$
Maximum Reverse Recovery Time <sup>3)</sup>	$t_{rr}$			50			75		ns
Operating and Storage Temperature Range	$T_J, T_S$	-55 to +150							$^\circ C$

<sup>1)</sup> Measured at 1 MHz and applied reverse voltage of 4 V DC.

<sup>2)</sup> Thermal resistance junction to ambient and from junction to lead at 0.375"(9.5mm) lead length P.C.B mounted.

<sup>3)</sup> Reverse recovery test conditions:  $I_F = 0.5 A$ ,  $I_R = 1 A$ ,  $I_{rr} = 0.25 A$ .

## RATING AND CHARACTERISTIC CURVES (UF4001 THRU UF4007)



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