



DC COMPONENTS CO., LTD.
RECTIFIER SPECIALISTS

**UF5400
THRU
UF5408**

TECHNICAL SPECIFICATIONS OF ULTRA FAST RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 3.0 Amperes

FEATURES

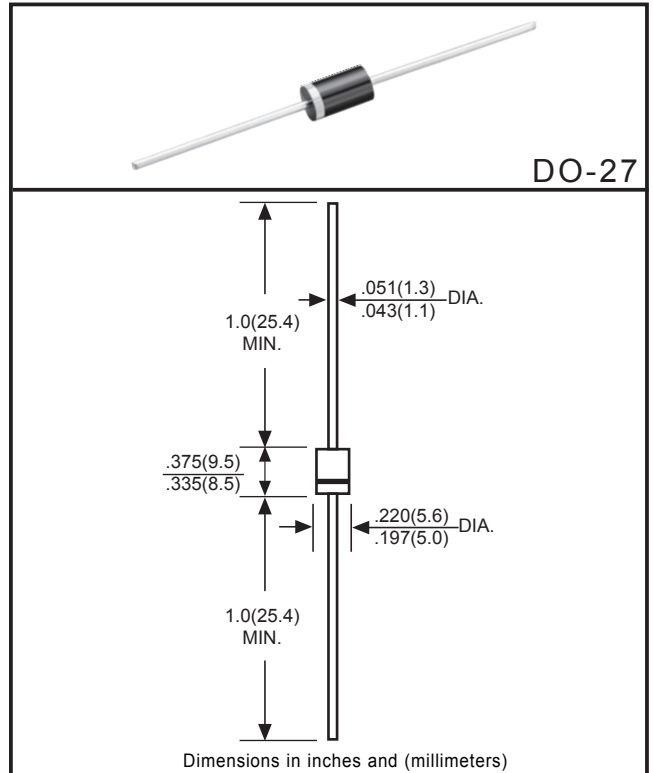
- * Low power loss, high efficiency
- * Low forward voltage drop
- * High current capability
- * Ultra fast switching
- * High reliability
- * High surge capability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94-V0 rate flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 2.08 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

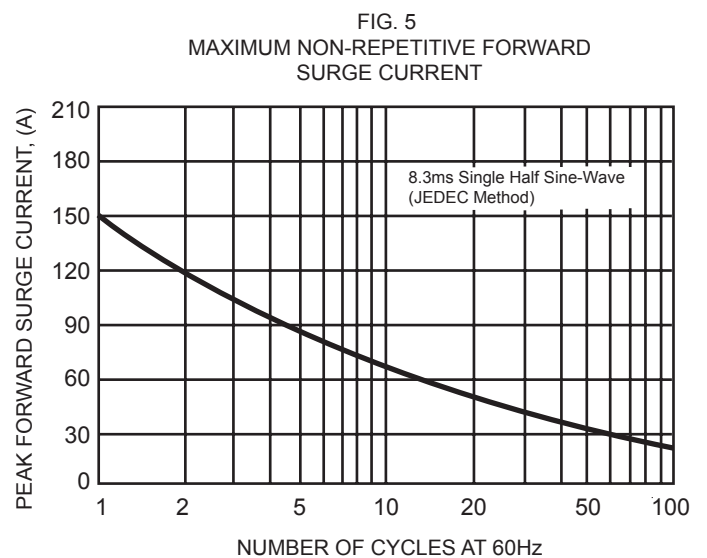
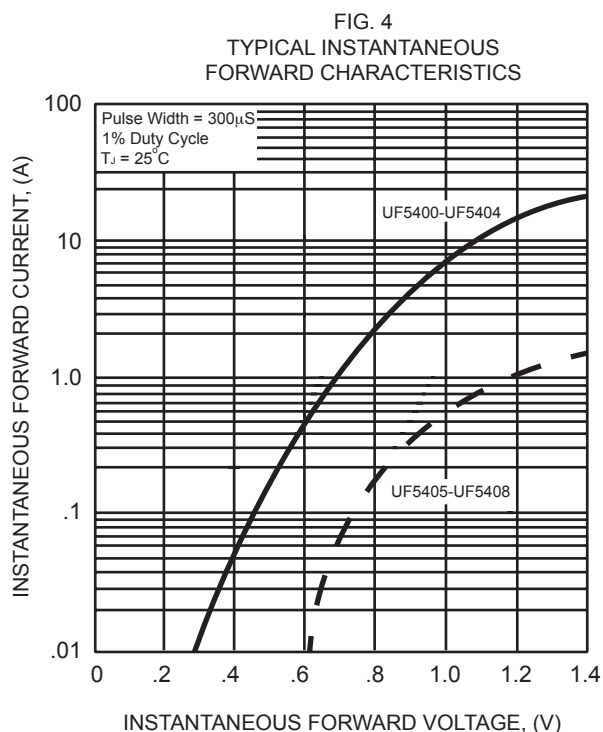
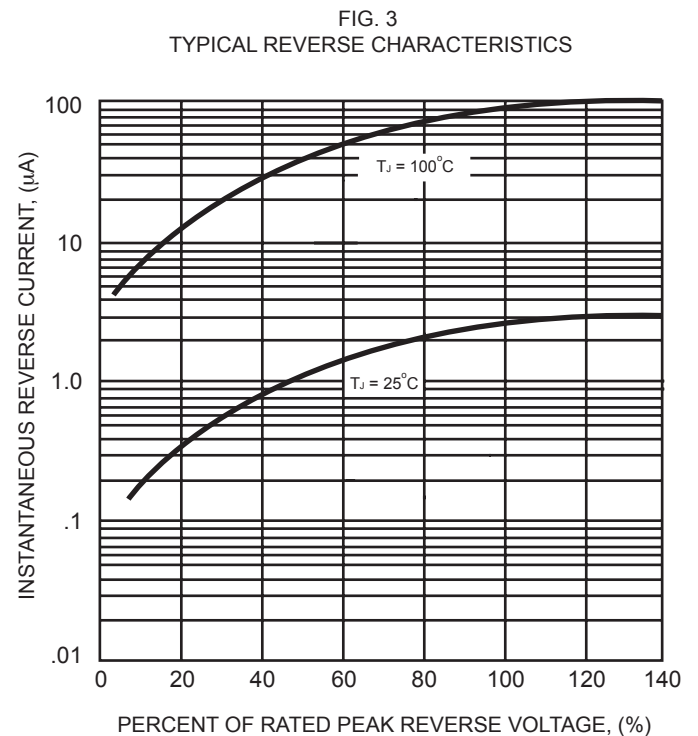
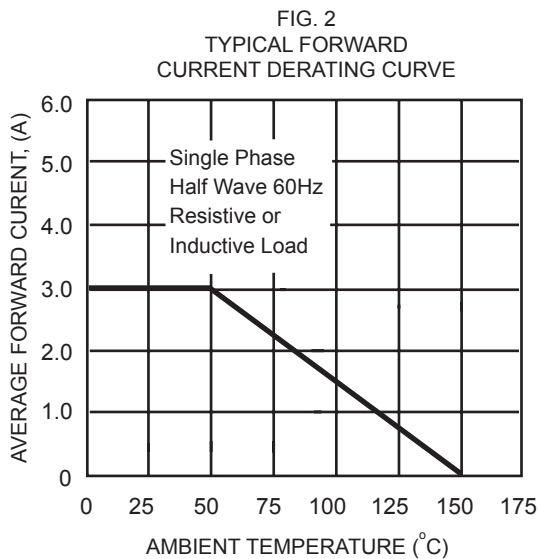
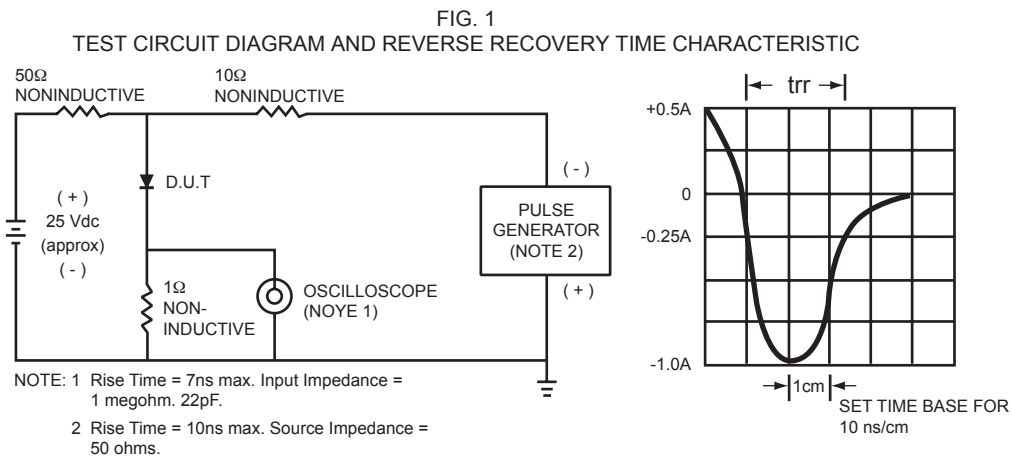


		SYMBOL	UF5400	UF5401	UF5402	UF5404	UF5406	UF5407	UF5408	UNITS
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T _A = 50°C		I _O	3.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		I _{FSM}	150							Amps
Maximum Instantaneous Forward Voltage at 3.0 A DC		V _F	1.0				1.7			Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T _J = 25°C	I _R	10							μAmps
	@T _J = 125°C		150							
Maximum Reverse Recovery Time (Note 1)		t _{rr}	50				100			nSec
Typical Junction Capacitance (Note 2)		C _J	70				50			pF
Operating and Storage Temperature Range		T _J , T _{STG}	-55 to +150							°C

Note 1 : Test conditions: I_F = 0.5A, I_R = 0.1A, I_{RR} = 0.25A.

Note 2 : Measured at 1 MHz and applied reverse voltage of 4.0 volts.

RATING AND CHARACTERISTIC CURVES (UF5400 THRU UF5408)



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