

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

UF2A THRU UF2M

TECHNICAL SPECIFICATIONS OF ULTRA FAST SILICON RECTIFIER VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 2.0 Amperes

FEATURES

- * Ideal for surface mounted applications
- * Glass passivated junction
- * Low leakage current

MECHANICAL DATA

* Case: Molded plastic

* Epoxy: UL 94V-0 rated flame retardant

* Lead: MIL-STD-202E, Method 208 guaranteed

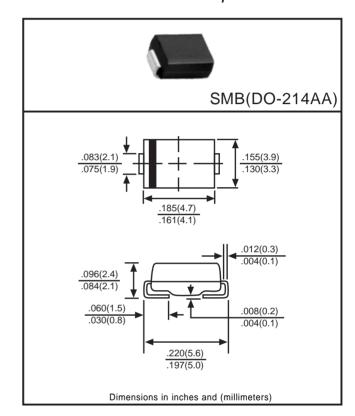
* Polarity: Color band denotes cathode end

* Mounting position: Any

* Weight: 0.093 gram approx.

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	UF2A	UF2B	UF2D	UF2G	UF2J	UF2K	UF2M	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T _A = 55°C	lo	2.0					Amps		
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	lгsм	50					Amps		
Maximum Instantaneous Forward Voltage at 2.0A DC	VF	1.0 1.3			1.7		Volts		
Maximum DC Reverse Current at Rated DC Blocking Voltage @ Ta=25°C @ Ta=100°C	lr	5.0 200							μ A mps
Typical Junction Capacitance (Note 1)	Сл	30						pF	
Typical Thermal Resistance (Note 2)	Rejl	20				°C/W			
Maximum Reverse Recovery time (Note 3)	trr	50 100					nSec		
Operating and Storage Temperature Range	T _J ,TsTG	-55 to +150						°C	

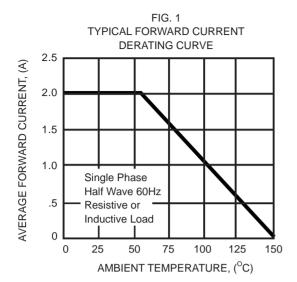
Note 1: Measured at 1 MHz and applied reverse voltage of 4.0 volts.

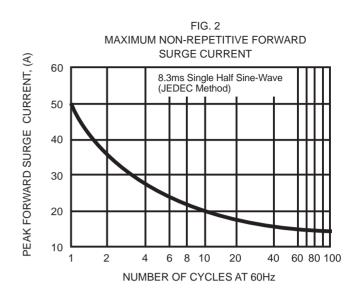
Note 2: Typical thermal resistance from junction to lead, with 0.28 x 0.28 in² (7 x 7 mm²) copper pads to each terminal.

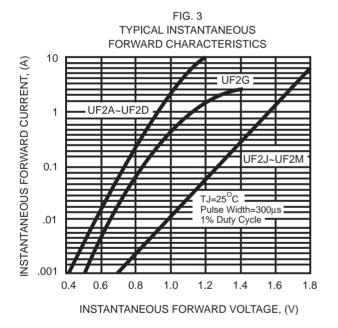
Note 3: Test conditions: IF=0.5A, IR=1.0A, IRR=0.25A.

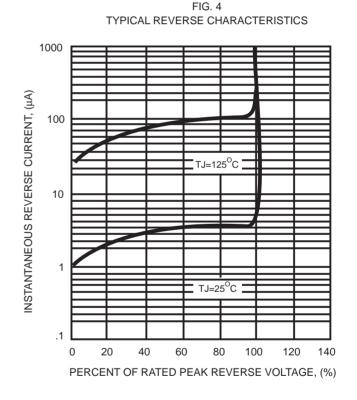
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RATING AND CHARACTERISTIC CURVES (UF2A THRU UF2M)









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