



**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**

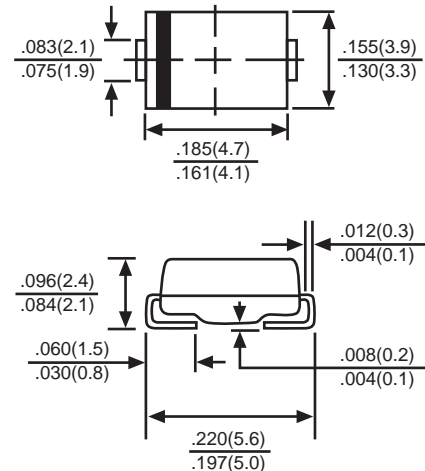
- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rated flame retardant
- \* Lead: MIL-STD-202E, Method 208 guaranteed
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any
- \* Weight: 0.093 gram approx.

**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%.



SMB(DO-214AA)



	SYMBOL	UF2A	UF2B	UF2D	UF2G	UF2J	UF2K	UF2M	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T <sub>A</sub> = 55°C	I <sub>o</sub>	2.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	50							Amps
Maximum Instantaneous Forward Voltage at 2.0A DC	V <sub>F</sub>	1.0		1.3		1.7		Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ T <sub>A</sub> =25°C	5.0							μAmps
	@ T <sub>A</sub> =100°C	200							
Typical Junction Capacitance (Note 1)	C <sub>J</sub>	30							pF
Typical Thermal Resistance (Note 2)	R <sub>θJL</sub>	20							°C/W
Maximum Reverse Recovery time (Note 3)	t <sub>rr</sub>	50				100			nSec
Operating and Storage Temperature Range	T <sub>J</sub> ,T <sub>STG</sub>	-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 in<sup>2</sup> (7 x 7 mm<sup>2</sup>) copper pads to each terminal.

Note 3: Test conditions: I<sub>F</sub>=0.5A, I<sub>R</sub>=1.0A, I<sub>RR</sub>=0.25A.

# RATING AND CHARACTERISTIC CURVES (UF2A THRU UF2M)

FIG. 1  
TYPICAL FORWARD CURRENT  
DERATING CURVE

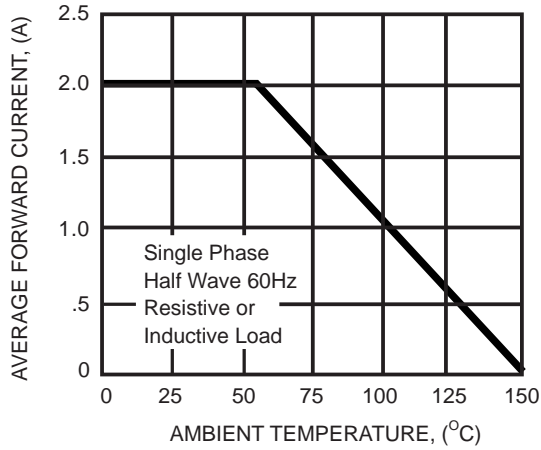


FIG. 2  
MAXIMUM NON-REPETITIVE FORWARD  
SURGE CURRENT

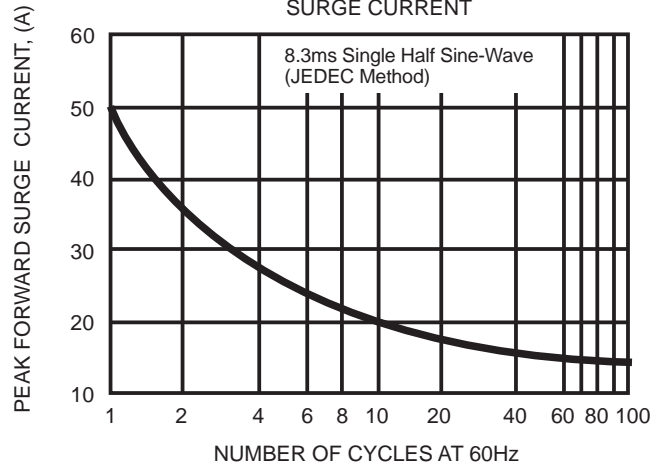


FIG. 3  
TYPICAL INSTANTANEOUS  
FORWARD CHARACTERISTICS

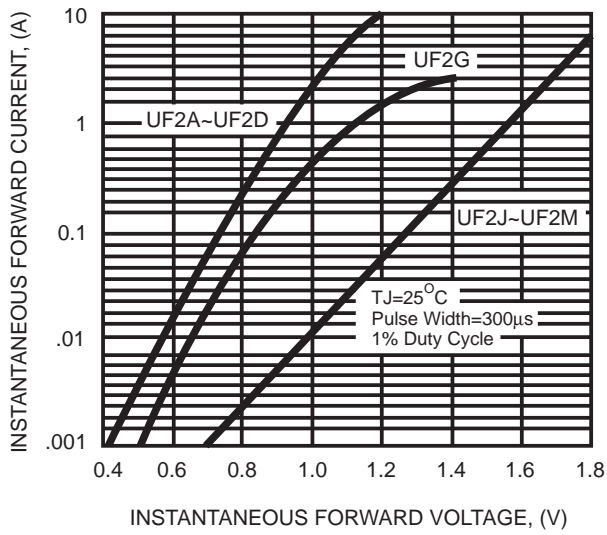
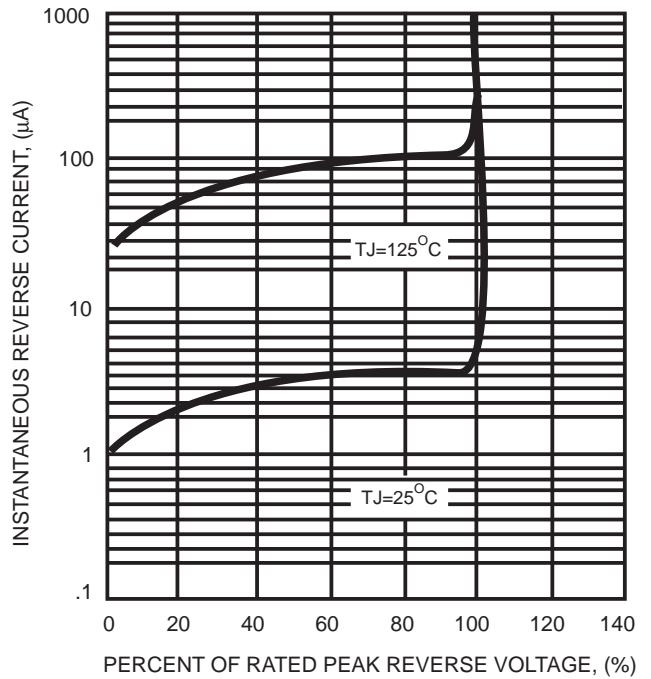


FIG. 4  
TYPICAL REVERSE CHARACTERISTICS



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