



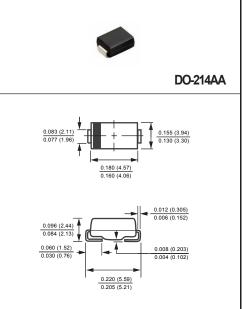
## SURFACE MOUNT GLASS PASSIVATED SUPER FAST SILICON RECTIFIER VOLTAGE RANGE 50 to 200 Volts CURRENT 2.0 Ampere

## FEATURES

- \* Glass passivated device
- \* For surface mounted applications
- \* Ultrafast recovery times dor high efficiency
- \* Low forward voltage, low power loss
- \* Low leakage current

### **MECHANICAL DATA**

- \* Epoxy: Device has UL flammability classification 94V-O
- \* Metallurgically bonded construction
- \* Mounting position: Any
- \* Weight: 0.098 gram



Dimensions in inches and (millimeters)

2006-11

MAXIMUM	RATINGS AI	ID ELECT	FRICAL C	HARACTE	RISTICS

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%.

RATINGS	SYMBOL	UFM201	UFM202	UFM203	UFM204	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	150	200	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	105	140	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	150	200	Volts
Maximum Average Forward Rectified Current at $T_A = 55^{\circ}C$	Io	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	
Typical Thermal Resistance (Note 1)	R <sub>0JA</sub> 75			°C/W		
Typical Thermal Resistance (Note 1)	R <sub>θJL</sub> 20			°C/W		
Typical Junction Capacitance (Note 2)	CJ	18				pF
Operating Temperature Range	TJ		150			°C
Storage Temperature Range	T <sub>STG</sub>	T <sub>STG</sub> -55 to + 150			°C	

#### ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

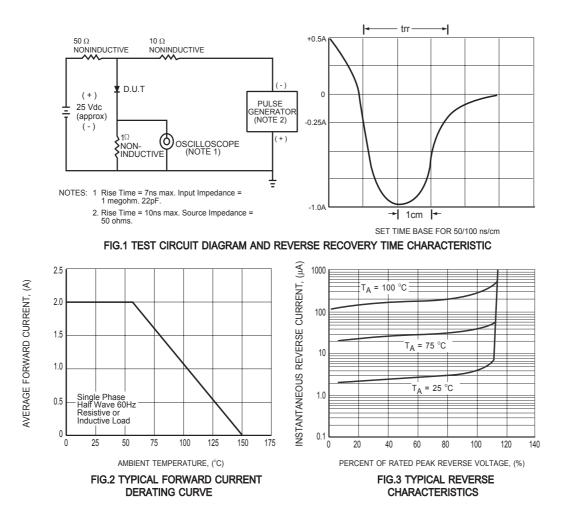
CHARACTERIS	SYMBOL	UFM201	UFM202	UFM203	UFM204	UNITS		
Maximum Instantaneous Forward Voltage	VF	0.9				Volts		
Maximum Average Reverse Current	@T <sub>A</sub> = 25°C	1-	5				μA	
at Rated DC Blocking Voltage	@T <sub>A</sub> = 100°C	'R		35	50		μA	
Maximum Reverse Recovery Time (Note 4)		trr		2	0		nSec	

NOTES : 1. Thermal Resistance :Mounted on PCB.

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

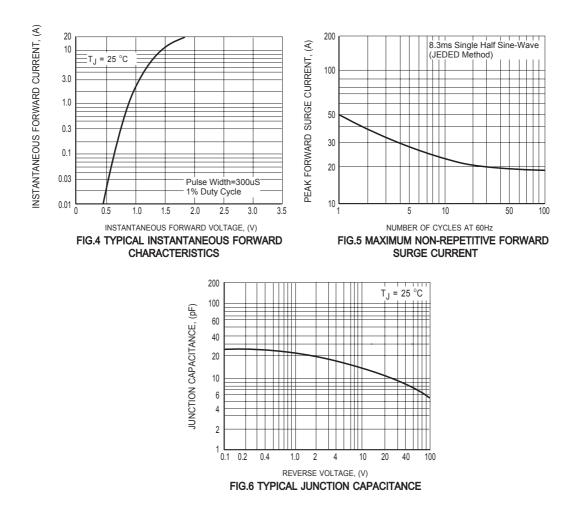
3. "Fully ROHS compliant","100% Sn plating (Pb-free)". 4. Test Conditions:  $I_F$ = 0.5A,  $I_R$ = -1.0A,  $I_R$ R= -0.25A.

## RATING AND CHARACTERISTICS CURVES (UFM201 THRU UFM204)



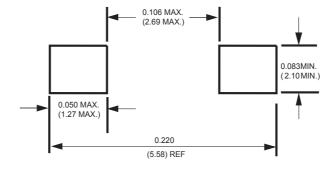
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# Mounting Pad Layout



Dimensions in inches and (millimeters)



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