



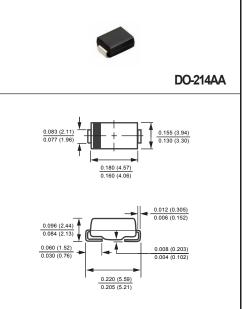
SURFACE MOUNT GLASS PASSIVATED SUPER FAST SILICON RECTIFIER VOLTAGE RANGE 50 to 200 Volts CURRENT 2.0 Ampere

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 _{RRM}	50	100	150	200	Volts
Maximum RMS Voltage	V _{RMS}	35	70	105	140	Volts
Maximum DC Blocking Voltage	V _{DC}	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 _{FSM}	50			Amps	
Typical Thermal Resistance (Note 1)	R _{0JA} 75			°C/W		
Typical Thermal Resistance (Note 1)	R _{θJL} 20			°C/W		
Typical Junction Capacitance (Note 2)	CJ	18				pF
Operating Temperature Range	TJ		150			°C
Storage Temperature Range	T _{STG}	T _{STG} -55 to + 150			°C	

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

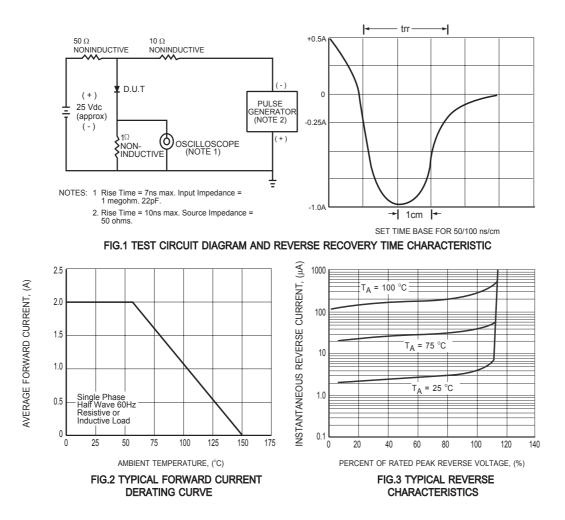
CHARACTERIS	SYMBOL	UFM201	UFM202	UFM203	UFM204	UNITS		
Maximum Instantaneous Forward Voltage	VF	0.9				Volts		
Maximum Average Reverse Current	@T _A = 25°C	1-	5				μA	
at Rated DC Blocking Voltage	@T _A = 100°C	'R		35	50		μA	
Maximum Reverse Recovery Time (Note 4)		trr		2	0		nSec	

NOTES : 1. Thermal Resistance :Mounted on PCB.

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

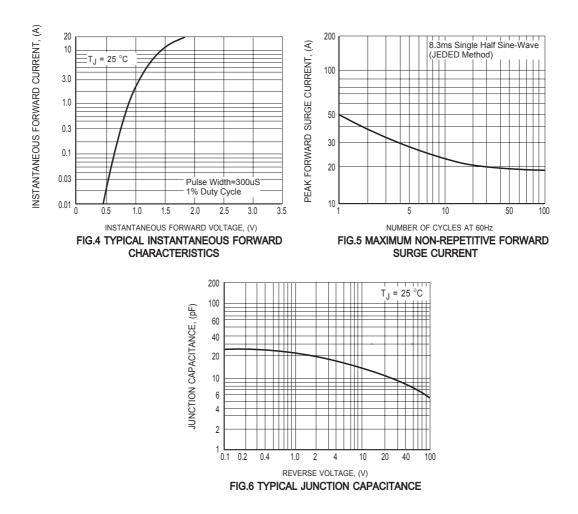
3. "Fully ROHS compliant","100% Sn plating (Pb-free)". 4. Test Conditions: I_F = 0.5A, I_R = -1.0A, I_R R= -0.25A.

RATING AND CHARACTERISTICS CURVES (UFM201 THRU UFM204)



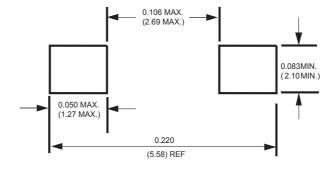
CRECTRON —







Mounting Pad Layout



Dimensions in inches and (millimeters)



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