



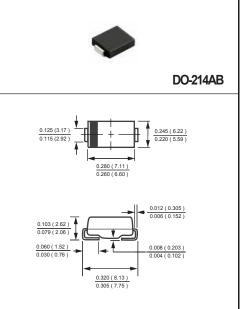
SURFACE MOUNT GLASS PASSIVATED SUPER FAST SILICON RECTIFIER VOLTAGE RANGE 50 to 200 Volts CURRENT 3.0 Ampere

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: 0.24 gram



Dimensions in inches and (millimeters)

2006-11

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

For capacitive load, derate current by 20%.

MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted) SYMBOL UFM301 UFM302 UFM303 UNITS RATINGS UFM304 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 50 100 150 200 Volts $\mathsf{V}_{\mathsf{D}\mathsf{C}}$ Maximum Average Forward Rectified Current l_o 3.0 Amps at T_A = 55°C Peak Forward Surge Current 8.3 ms single half sine-wave 100 IFSM Amps superimposed on rated load (JEDEC method) Typical Thermal Resistance (Note 1) R_{θJA} 47 °C/W Typical Thermal Resistance (Note 1) $R\,\theta\,{}_{J\,L}$ 12 °C/W Typical Junction Capacitance (Note 2) 45 Cı рF Operating Temperature Range ТJ 150 ⁰ C ٥C Storage Temperature Range T_{STG} -55 to + 150

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

CHARACTERISTICS		SYMBOL	UFM301	UFM302	UFM303	UFM304	UNITS
Maximum Instantaneous Forward Voltage at 3.0A DC		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	500				μA
Maximum Reverse Recovery Time (Note 4)		trr	20				nSec

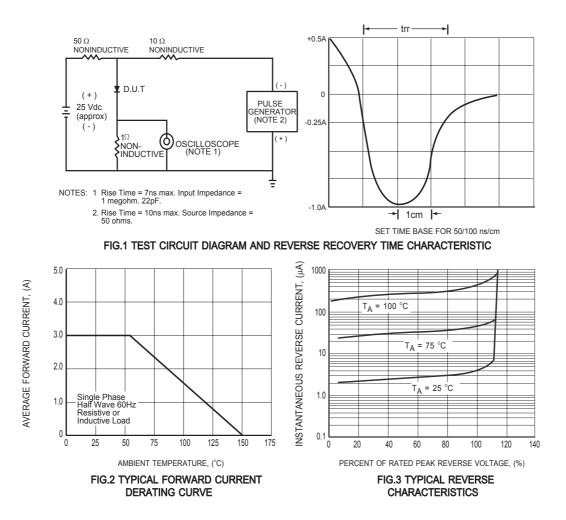
NOTES: 1. Thermal Resistance :Mounted on PCB.

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

3. "Fully ROHS compliant","100% Sn plating (Pb-free)".

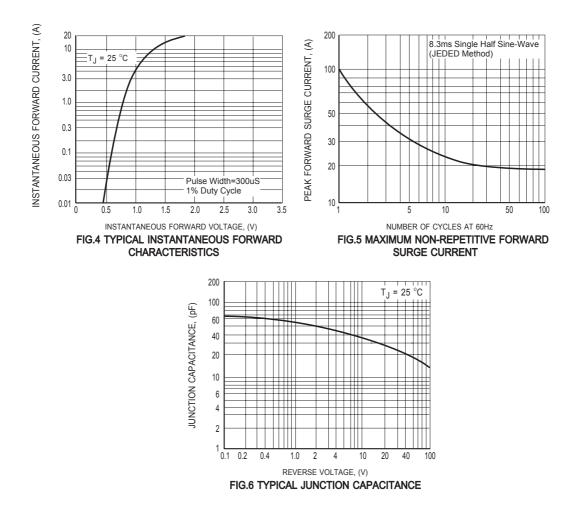
4. Test Conditions: I_F = 0.5A, I_R = -1.0A, I_{RR} = -0.25A.

RATING AND CHARACTERISTICS CURVES (UFM301 THRU UFM304)



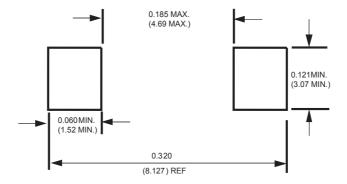


RATING AND CHARACTERISTICS CURVES (UFM301 THRU UFM304)





Mounting Pad Layout



Dimensions in inches and (millimeters)



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