

**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

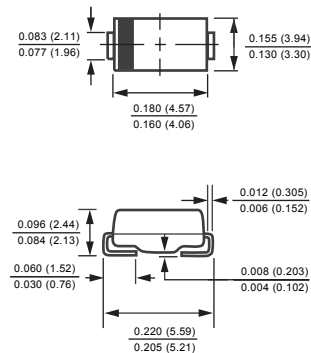
- * Epoxy: Device has UL flammability classification 94V-0
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.098 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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%.



DO-214AA



MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

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 $T_A = 55^{\circ}C$	I_O	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)	$R_{\theta JA}$	75				$^{\circ}C/W$
Typical Thermal Resistance (Note 1)	$R_{\theta JL}$	20				$^{\circ}C/W$
Typical Junction Capacitance (Note 2)	C_J	18				pF
Operating Temperature Range	T_J	150				$^{\circ}C$
Storage Temperature Range	T_{STG}	-55 to + 150				$^{\circ}C$

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

CHARACTERISTICS	SYMBOL	UFM201	UFM202	UFM203	UFM204	UNITS
Maximum Instantaneous Forward Voltage at 2.0A DC	V_F	0.9				Volts
Maximum Average Reverse Current @ $T_A = 25^{\circ}C$	I_R	5				μA
at Rated DC Blocking Voltage @ $T_A = 100^{\circ}C$		350				μA
Maximum Reverse Recovery Time (Note 4)	t_{rr}	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 (UFM201 THRU UFM204)

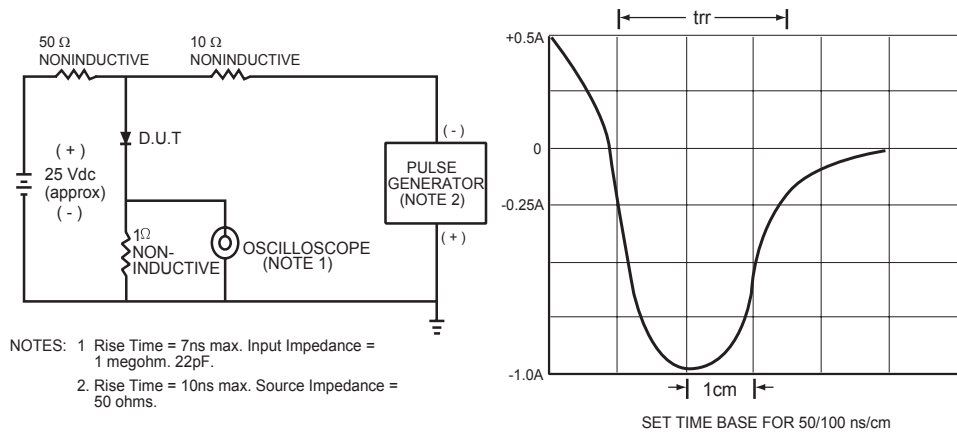


FIG.1 TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

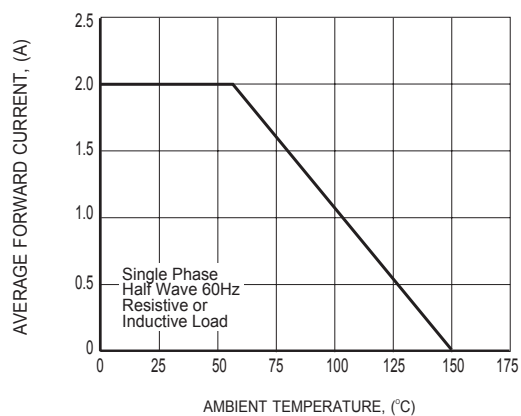


FIG.2 TYPICAL FORWARD CURRENT DERATING CURVE

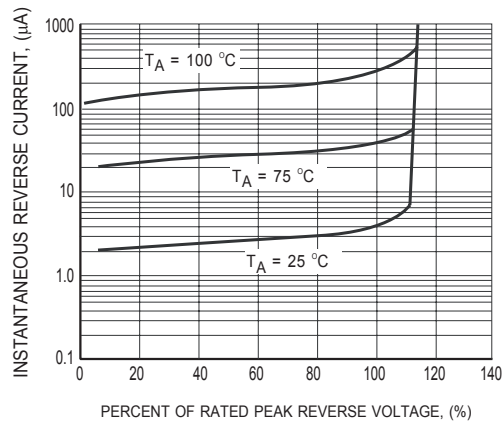


FIG.3 TYPICAL REVERSE CHARACTERISTICS

RATING AND CHARACTERISTICS CURVES (UFM201 THRU UFM204)

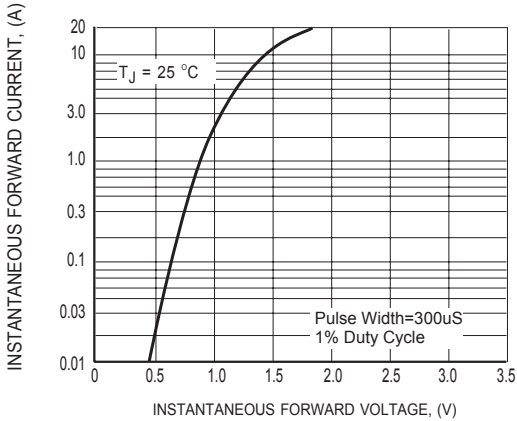


FIG.4 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

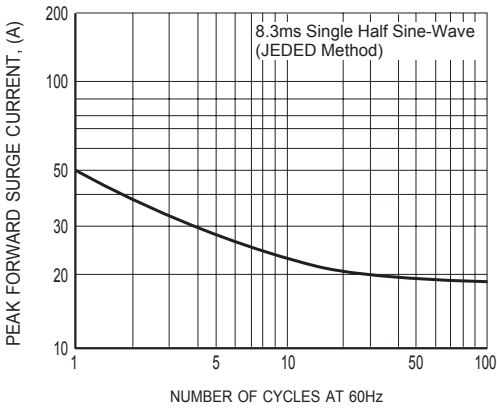


FIG.5 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

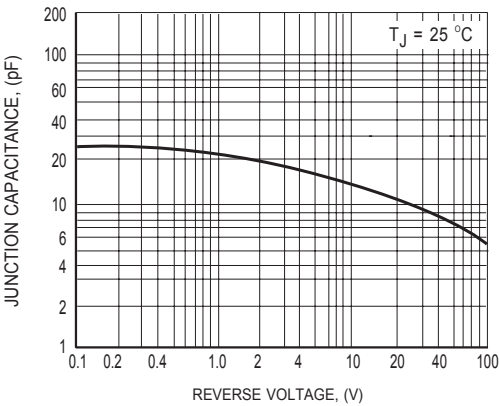
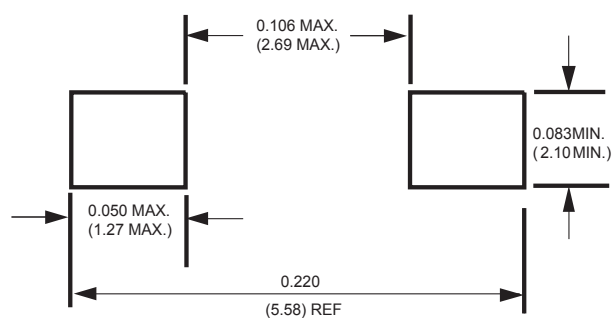


FIG.6 TYPICAL JUNCTION CAPACITANCE

Mounting Pad Layout



Dimensions in inches and (millimeters)

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