



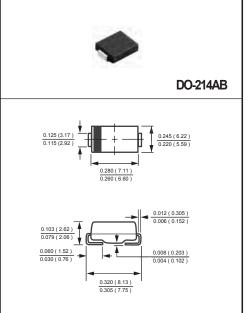
SURFACE MOUNT GLASS PASSIVATED SUPER FAST SILICON RECTIFIER VOLTAGE RANGE 50 to 200 Volts CURRENT 3.0 Ampere

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)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25 °C ambient temperature unless otherwise specified.

Resistive or inductive load.

RATINGS	SYMBOL	UFM301	UFM302	UFM303	UFM304	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°C	Io	3.0				
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM} 100					Amps
Typical Current Square Time	I ² T	41.4				
Typical Thermal Resistance (Note 1)	R _{θJA}	47				
Typical Thermal Resistance (Note 1)	R _{θJL} 12					°C/W
Typical Junction Capacitance (Note 2)	CJ 45					pF
Operating Temperature Range	Тј 150					۰C
Storage Temperature Range	TSTG	-55 to + 150				°C

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

CHARACTERI	SYMBOL	UFM301	UFM302	UFM303	UFM304	UNITS			
Maximum Instantaneous Forward Voltag	VF	0.9							
Maximum Average Reverse Current	@T _A = 25°C		5						
at Rated DC Blocking Voltage	@T _A =150 °C	^I R	1						
Maximum Reverse Recovery Time (Note	trr	20							

NOTES: 1. Thermal Resistance :Mounted on PCB.

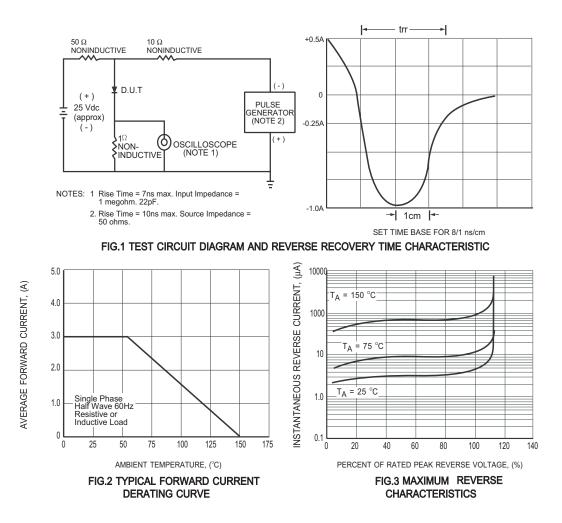
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

3. "ROHS compliant"

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

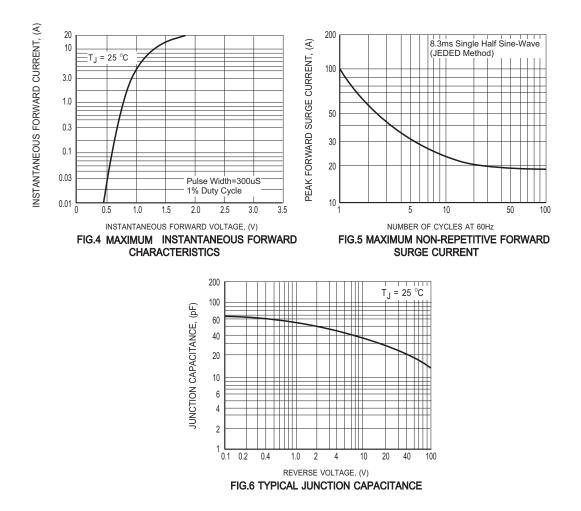
2018-10 REV:D

RATING AND CHARACTERISTICS CURVES (UFM301 THRU UFM304)



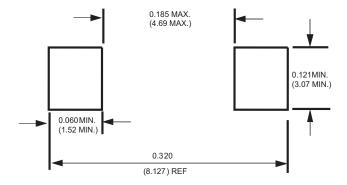


RATING AND CHARACTERISTICS CURVES (UFM301 THRU UFM304)





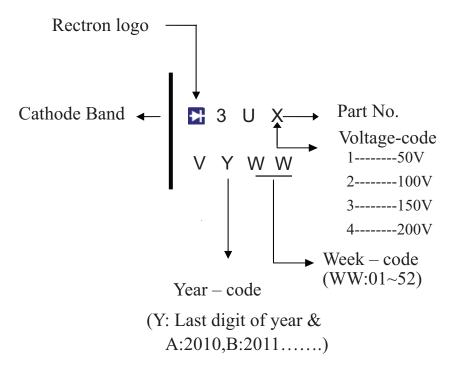
Mounting Pad Layout



Dimensions in inches and (millimeters)



Marking Description





PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)		GROSS WEIGHT(Kg)
SMC	-W/-T	3,000	3,000			330	360*355*360	24,000	11.50

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