### **UF200 THRU UF2010**

# ULTRAFAST SWITCHING RECTIFIER VOLTAGE - 50 to 1000 Volts CURRENT - 2.0 Amperes

#### **FEATURES**

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound
- Void-free Plastic in DO-15 package
- 2.0 ampere operation at T<sub>A</sub>=55 ¢J with no thermal runaway
- Exceeds environmental standards of MIL-S-19500/228
- Ultra fast switching for high efficiency

#### **MECHANICAL DATA**

Case: Molded plastic, DO-15

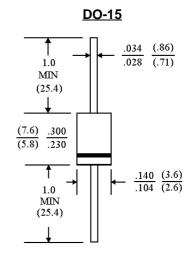
Terminals: Axial leads, solderable per MIL-STD-202,

Method 208

Polarity: Band denotes cathode

Mounting Position: Any

Weight: 0.015 ounce, 0.4 gram



Dimensions in inches and (millimeters)

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ¢J ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

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UF200	UF201	UF202	UF204	UF206	UF208	UF2010	UNITS
50	100	200	400	600	800	1000	V
35	70	140	280	420	560	700	V
50	100	200	400	600	800	1000	V
2.0						Α	
60						Α	
	1.00		1.10		1.70		V
10.0						£g A	
500						£g A	
35						₽F	
45						¢J/W	
50	50	50	50	75	75	75	ns
-55 TO +150						¢J	
	UF200 50 35 50	UF200 UF201 50 100 35 70 50 100  1.00	UF200         UF201         UF202           50         100         200           35         70         140           50         100         200	UF200         UF201         UF202         UF204           50         100         200         400           35         70         140         280           50         100         200         400           2.0         60         60           1.00         1.10         10.0           500         35         45           50         50         50	UF200         UF201         UF202         UF204         UF206           50         100         200         400         600           35         70         140         280         420           50         100         200         400         600           2.0         60         60           1.00         1.10         10.0           500         35         45           50         50         50         75	UF200         UF201         UF202         UF204         UF206         UF208           50         100         200         400         600         800           35         70         140         280         420         560           50         100         200         400         600         800           2.0         60           1.00         1.10         1.70           10.0         500         500         75         75           50         50         50         50         75         75	UF200         UF201         UF202         UF204         UF206         UF208         UF2010           50         100         200         400         600         800         1000           35         70         140         280         420         560         700           50         100         200         400         600         800         1000           2.0         60         60         800         1000           1.00         1.10         1.70           10.0         500         500         75         75         75           50         50         50         75         75         75

#### NOTES:

- Measured at 1 MHz and applied reverse voltage of 4.0 VDC
- 2. Thermal resistance from junction to ambient and from junction to lead length 0.375"(9.5mm) P.C.B. mounted



## RATING AND CHARACTERISTIC CURVES UF200 THRU UF2010

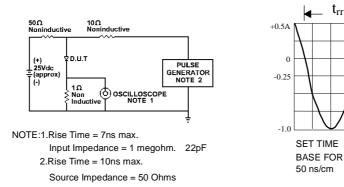


Fig. 1-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

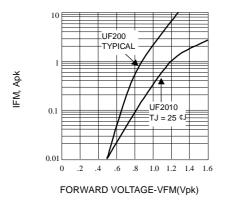


Fig. 2-FORWARD CHARACTERISTICS

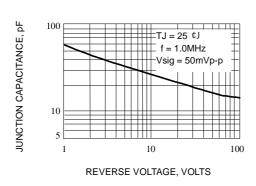


Fig. 4-TYPICAL JUNCTION CAPACITANCE

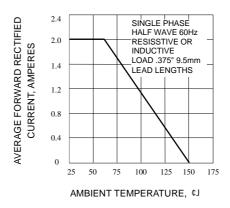


Fig. 3-FORWARD CURRENT DERATING CURVE

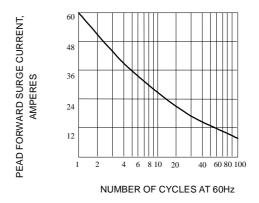


Fig. 5-PEAK FORWARD SURGE CURRENT

