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_A=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

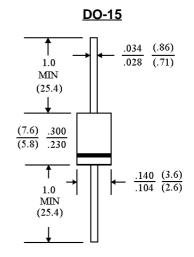
Terminals: Axial leads, solderable per MIL-STD-202,

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.

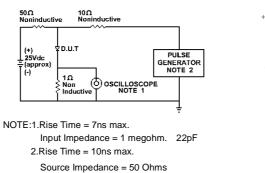
14401110 11							
UF200	UF201	UF202	UF204	UF206	UF208	UF2010	UNITS
50	100	200	400	600	800	1000	V
35	70	140	280	420	560	700	V
50	100	200	400	600	800	1000	V
2.0						Α	
60						Α	
	1.00		1.10		1.70		V
10.0						£g A	
500						£g A	
35						₽F	
45						¢J/W	
50	50	50	50	75	75	75	ns
-55 TO +150						¢J	
	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

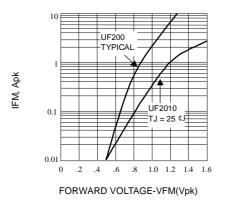


+0.5A

0
-0.25

SET TIME
BASE FOR
50 ns/cm

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



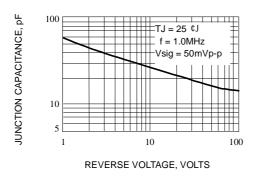
2.4 SINGLE PHASE HALF WAVE 60Hz
RESISSTIVE OR INDUCTIVE
LOAD .375" 9.5mm
LEAD LENGTHS

0.8
0.8
0.4
0
25 50 75 100 125 150 175

AMBIENT TEMPERATURE, ¢J

Fig. 2-FORWARD CHARACTERISTICS





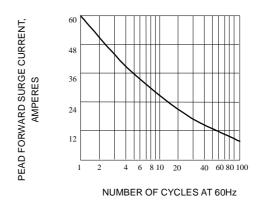


Fig. 4-TYPICAL JUNCTION CAPACITANCE

Fig. 5-PEAK FORWARD SURGE CURRENT

