



ULTRAFAST SWITCHING RECTIFIER

UF200 THRU UF2010

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 $T_A=55^{\circ}\text{C}$ with no thermal runaway
- Exceeds environmental standards of MIL-S-19500/228
- Ultra fast switching for high efficiency

MECHANICAL DATA

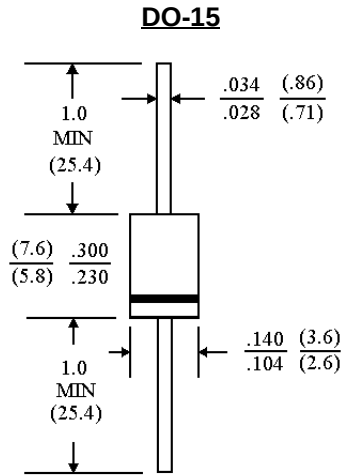
Case: Molded plastic, DO-15

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°C ambient temperature unless otherwise specified.

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

	UF200	UF201	UF202	UF204	UF206	UF208	UF2010	UNITS
Peak Reverse Voltage, Peperitive ; V_{RM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
DC Blocking Voltage; VR	50	100	200	400	600	800	1000	V
Average Forward Current, Io @TA=55 ºC 3.8” lead length, 60Hz, resistive or inductive load	2.0							A
Peak Forward Surge Current IFM (surge) 8.3msec. single half sine-wave superimposed on rated load (JEDEC method)	60							A
Maximum Forward Voltage VF @2.0A, 25 ºC	1.00			1.10	1.70			V
Maximum Reverse Current, @ Rated TJ=25 ºC	10.0							g A
Reverse Voltage TJ=100 ºC	500							g A
Typical Junction capacitance (Note 1) CJ	35							pF
Typical Junction Resistance (Note 2) RKJA	45							J/W
Reverse Recovery Time IF=.5A, IR=1A, Irr=.25A	50	50	50	50	75	75	75	ns
Operating and Storage Temperature Range	-55 TO +150							J

RATING AND CHARACTERISTIC CURVES

UF200 THRU UF2010

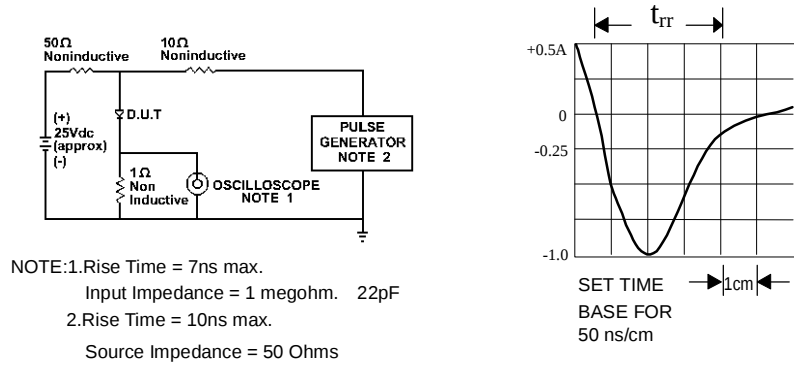


Fig. 1-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

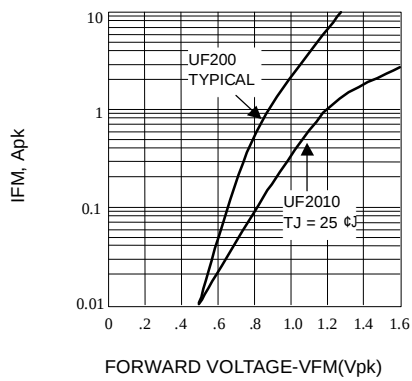


Fig. 2-FORWARD CHARACTERISTICS

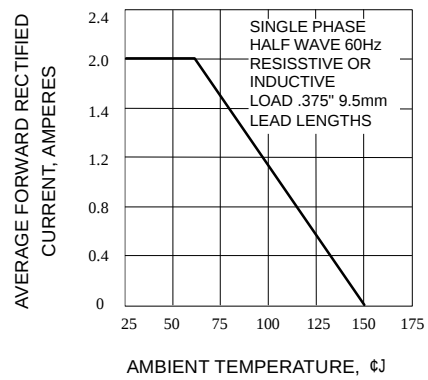


Fig. 3-FORWARD CURRENT DERATING CURVE

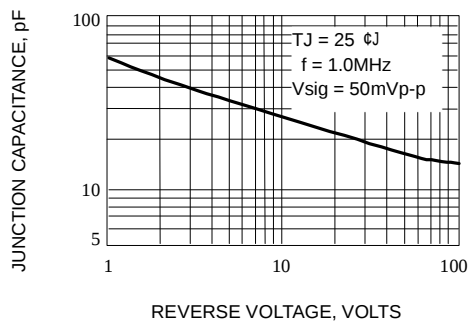


Fig. 4-TYPICAL JUNCTION CAPACITANCE

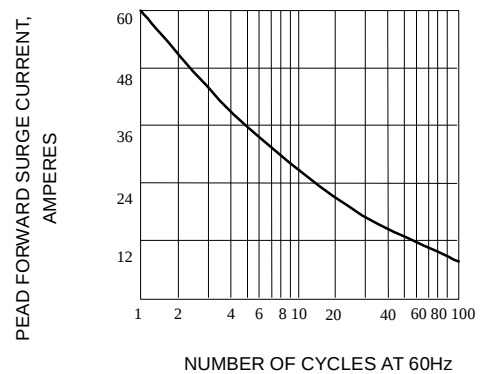


Fig. 5-PEAK FORWARD SURGE CURRENT