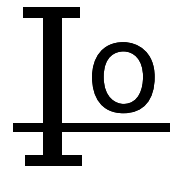


UF5400 THRU UF5408



3.0AMP HIGH EFFICIENCY RECTIFIERS



FEATURES

- *Low forward voltage drop
- *High current capability
- *High reliability
- *High surge current capability
- *High speed switching
- *Lead Free Finish/RoHS Compliant

MECHANICAL DATA

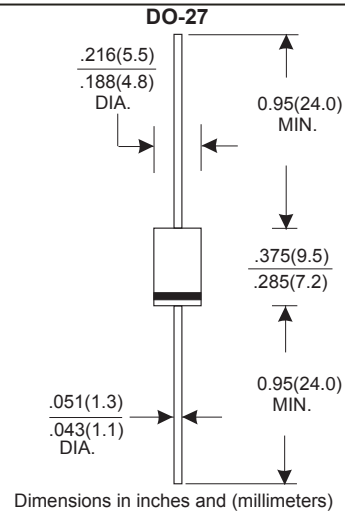
- *Case: Molded plastic
- *Epoxy: UL94V-0 rate flame retardant
- *Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- *Polarity: Color band denotes cathode end
- *Mounting position: Any
- *Weight: 1.10 grams

VOLTAGE RANGE

50 to 1000 Volts

CURRENT

3.0 Amperes



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.
 Single phase half wave, 60Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

TYPENUMBER	UF5400	UF5401	UF5402	UF5403	UF5404	UF5406	UF5407	UF5408	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	300	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	210	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current .375" (9.5mm) Lead Length at Ta=50°C	3.0								A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	150								A
Maximum Instantaneous Forward Voltage at 3.0A	1.0		1.3		1.70				V
Maximum DC Reverse Current Ta=25°C	10								µA
at Rated DC Blocking Voltage Ta=100°C	200								µA
Maximum Reverse Recovery Time (Note 1)	50					75			ns
Typical Junction Capacitance (Note 2)	75								pF
Operating and Storage Temperature Range Tj, TSTG	-65 to +150								°C

NOTES:

- Reverse Recovery Time test condition: IF=0.5A, IR=1.0A, IRR=0.25A
- Measured at 1MHz and applied reverse voltage of 4.0VDC.

RATING AND CHARACTERISTIC CURVES (UF5400 THRU UF5408)

FIG. 1-TYPICAL FORWARD CHARACTERISTICS

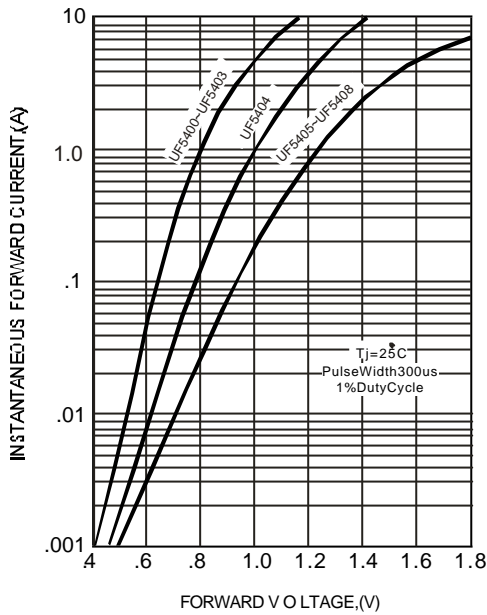


FIG. 2-TYPICAL FORWARD CURRENT DERATING CURVE

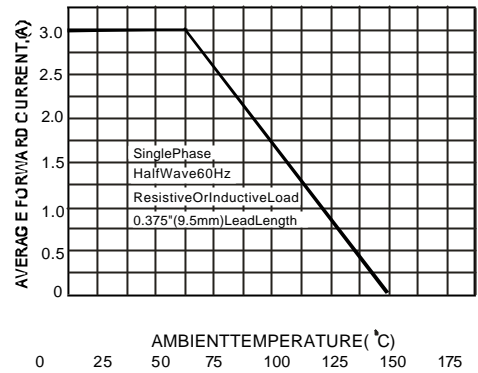


FIG. 4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

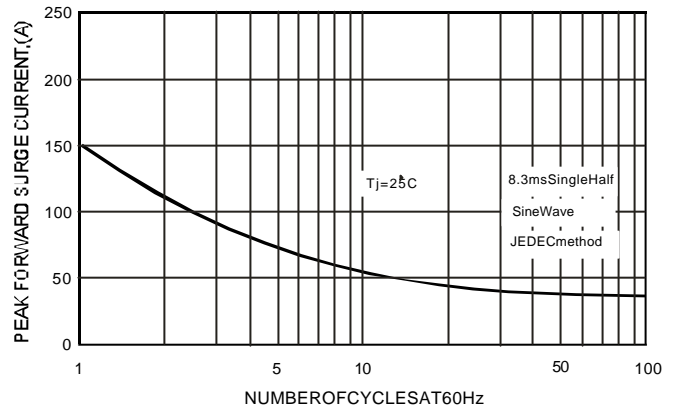
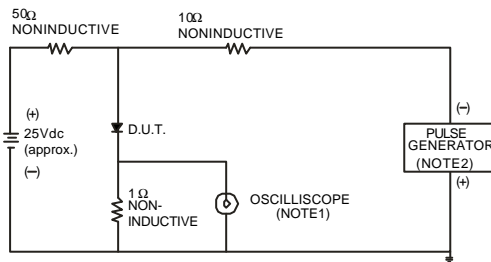


FIG. 3-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS



- NOTES: 1. Rise Time = 7ns max., Input Impedance = 1 megohm, 22pF.
2. Rise Time = 10ns max., Source Impedance = 50ohms.

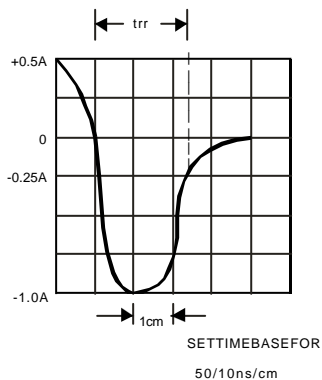


FIG. 5-TYPICAL JUNCTION CAPACITANCE

