

CURRENT 3.0 Ampere
 VOLTAGE RANG 50 to 1000 Volts

UF5400 THRU UF5408

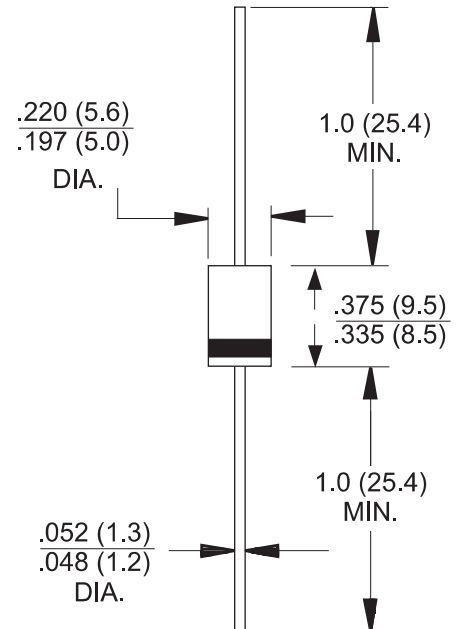
DO-27 / DO-201AD

FEATURES

- Low coat construction
- Fast switching for high efficiency.
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:
 260 /10 secods/.375 (9.5mm)lead length at 5 lbs(2.3kg)
 tension

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V-O rate flame retardant
- Polarity: Color band denotes cathode end
- Lead: Plated axial lead, solderable per MIL-STD-202E
 method 208C
- Mounting position: Any
- Weight: 0.042ounce, 1.19 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOLS	UF 5400	UF 5401	UF 5402	UF 5403	UF 5404	UF 5405	UF 5406	UF 5407	UF 5408	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	500	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	350	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	500	600	800	1000	Volts
Maximum Average Forward Rectified Current 0.375 (9.5mm) lead length at $T_A=55$	$I_{(AV)}$	3.0									Amp
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method)	I_{FSM}	125									Amps
Maximum Instantaneous Forward Voltage @ 3.0A	V_F	1.0					1.7				Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A = 25$	10									μA
	$T_A = 125$	50									
Maximum Reverse Recovery Time $T_J = 25$ (NOTE 1)	t_{rr}	50					75				ns
Typical Thermal Resistance (NOTE 2)	C_J	45									PF
Typical Thermal Resistance(NOTE 3)	$R_{\theta JA}$	20									/W
Operating Junction Temperature Range	T_J, T_{STG}	(-55 to +150)									

Notes:

- 1 Test Condition: $I_F=0.5A, I_R=1.0A, I_{RR}=0.25A$
2. Measured at 1.0 MHz and applied reverse of 4.0 V
- 3 Thermal resistance from junction to ambient with .375 (9.5mm)lead length, P.C.B. mounted. .

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RATING AND CHARACTERISTIC CURVES UF5400 Thru UF5408

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

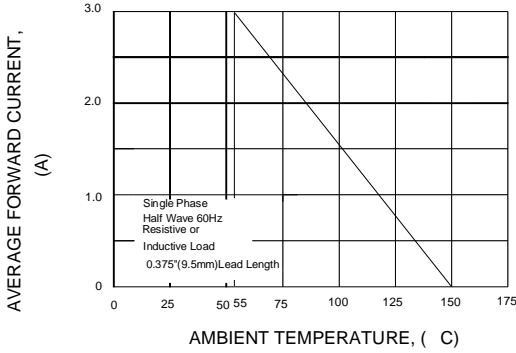


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

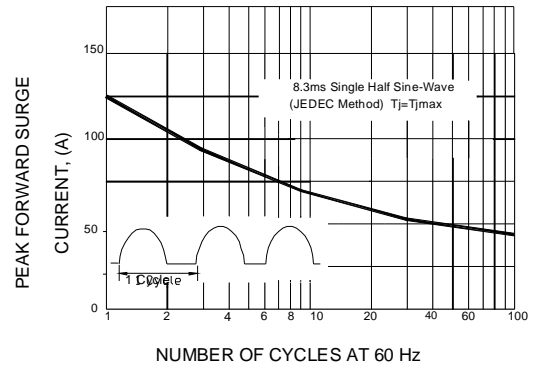


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

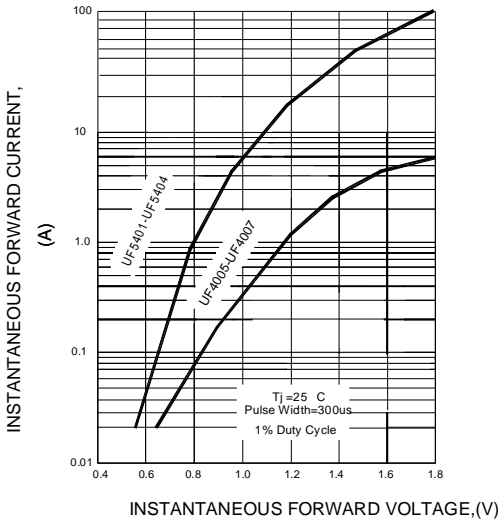


FIG.4-TYPICAL REVERSE CHARACTERISTICS

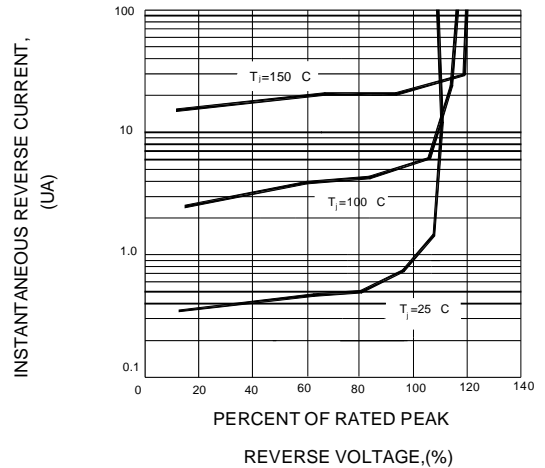


FIG.5-TYPICAL JUNCTION CAPACITANCE

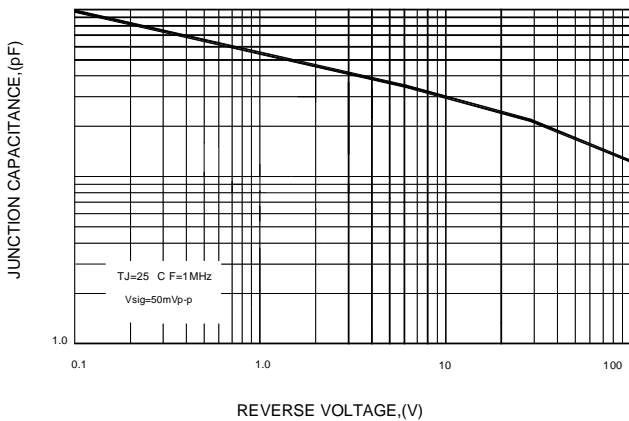


FIG.6-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

