

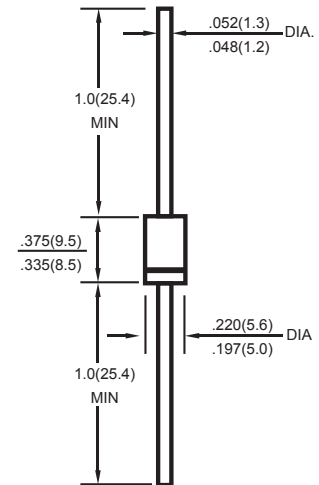
Features

- ✧ Low power loss,high efficiency.
- ✧ Low leakage.
- ✧ High speed switching.
- ✧ High current capability.
- ✧ High surge capability.
- ✧ High temperature soldering guaranteed:
260°C/10 seconds/0.375" (9.5mm)lead length
at 5 lbs (2,3kg) tension

Mechanical Data

- ✧ **Case:** Transfer molded plastic
- ✧ **Epoxy:** UL94V-0 rate flame retardant
- ✧ **Polarity:** Color band denotes cathode end
- ✧ **Mounting position:** Any
- ✧ **Weight:** 1.2 grams

DO-201AD/DO-27



Maximum Ratings and Electrical Characteristics

Dimensions in inches and (millimeters)

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%.

Type Number	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	760	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 =50°C	I _(AV)	3.0									Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	150									Amps
Maximum Instantaneous Forward Voltage Drop at 3.0A	V _F	1.0			1.3			1.7			Volts
Maximum DC Reverse Current at rated DC blocking voltage T _A =25°C	I _R	5.0									μA
Maximum Reverse Recovery Time(NOTE 1)	t _{rr}	50					75				nS
Typical Junction Capacitance(NOTE2)	C _J	70					50				pF
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150									°C

NOTES:

1. Test condition: $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{RR}=0.25\text{A}$.
2. Measured at 1MHz and applied reverse of 4.0volts.
3. Thermal resistance from junction to ambient with 0.375" (9.5mm) lead length, P.C.B. mounted.

FIG. 1 - MAXIMUM FORWARD CURRENT DERATING CURVE

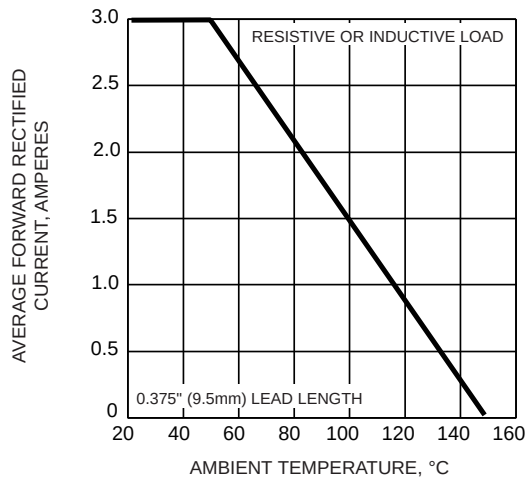


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

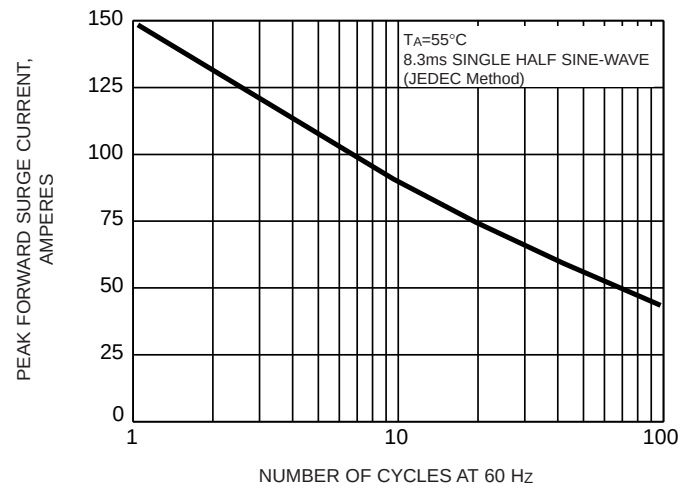


FIG. 3 - TYPICAL FORWARD CHARACTERISTICS

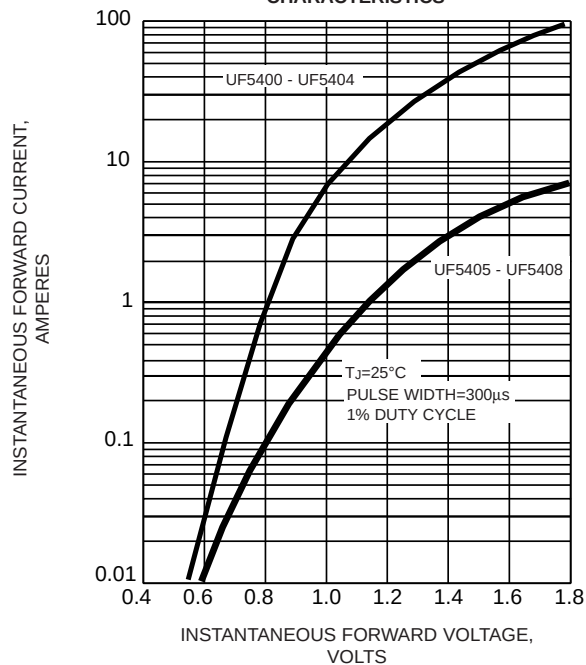


FIG. 4 - TYPICAL REVERSE LEAKAGE CHARACTERISTICS

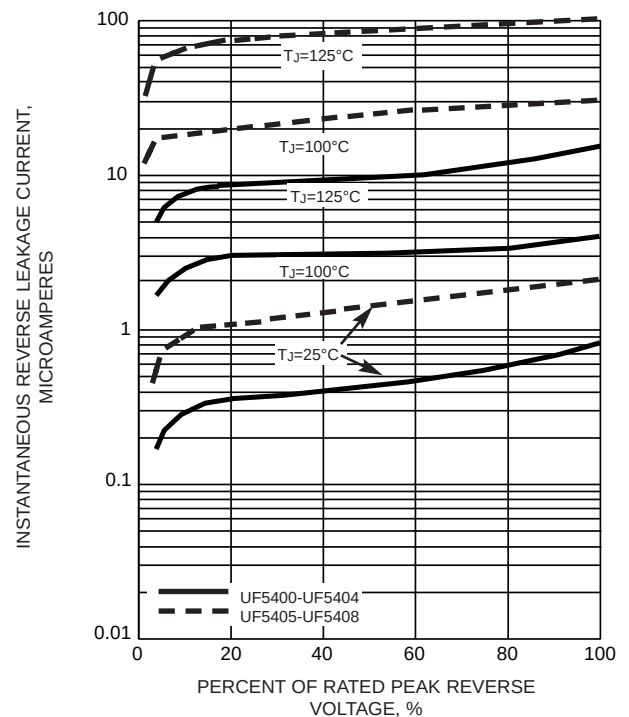


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

