



DATA SHEET

UF5401G~UF5407G

GLASS PASSIVATED JUNCTION ULTRAFAST SWITCHING RECTIFIER

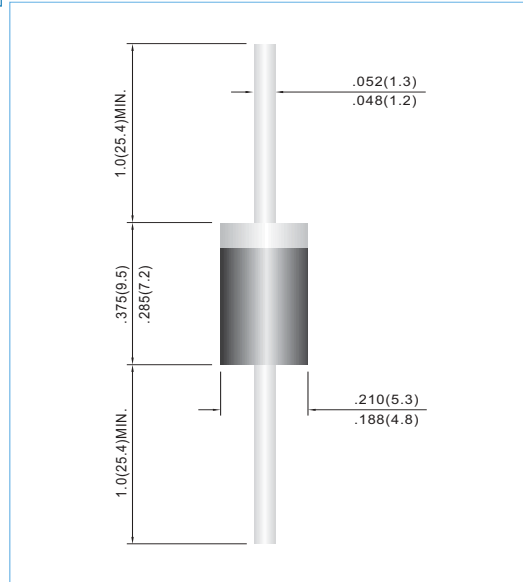
VOLTAGE 100 to 800 Volts **CURRENT** 3.0 Amperes **DO-201AD** Unit: inch(mm)

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound
- Exceeds environmental standards of MIL-S-19500/228.
- Ultra Fast switching for high efficiency.
- Both normal and Pb free product are available :
Normal : 80~95% Sn, 5~20% Pb
Pb free: 98.5% Sn above

MECHANICAL DATA

Case: Molded plastic, DO-201AD
Terminals: Axial leads, solderable per MIL-STD-202, Method 208
Polarity: Band denotes cathode
Mounting Position: Any
Weight: 0.04 ounce, 1.1 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS FEATURES

Ratings at 25°C ambient temperature unless otherwise specified.

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

PARAMETER	SYMBOL	UF5401G	UF5402G	UF5403G	UF5404G	UF5405G	UF5406G	UF5407G	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	200	300	400	500	600	800	V
Maximum RMS Voltage	V_{RMS}	70	140	210	280	350	420	560	V
Maximum DC Blocking Voltage	V_{DC}	100	200	300	400	500	600	800	V
Maximum Average Forward Current .375"(9.5mm) lead length at $T_A=55^\circ C$	I_{AV}				3.0				A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}				150				A
Maximum Forward Voltage at 3.0A	V_F	1.0			1.3	1.5		1.7	V
Maximum DC Reverse Current $T_J=25^\circ C$ at Rated DC Blocking Voltage $T_J=100^\circ C$	I_R				10.0 300				μA
Typical Junction capacitance (Note 1)	C_J				75				pF
Typical Thermal Resistance(Note 2)	$R_{\theta JA}$				60				$^\circ C / W$
Maximum Reverse Recovery Time (Note 3)	T_{RR}	50						75	ns
Operating Junction and Storage Temperature Range	T_J, T_{STG}				-55 TO +150				$^\circ C$

NOTES:

1. 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.
3. Test Condition: $T_a = T_j$ Per pulse test pulse width 300 μs duty $\leq 2\%$



RATING AND CHARACTERISTIC CURVES

