UF300 ~ UF3010

ULTRAFAST RECOVERY RECTIFIERS

| VOLTAGE | 50 to 1000 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.
- Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

- Case: Molded plastic, DO-201AD
- Terminals: Axial leads, solderable per MIL-STD-750,Method 2026
- Polarity: Band denotes cathode
- Mounting Position: Any
- Weight: 0.0395 ounce, 1.122 gram

0.052(1.3) / 0.048(1.2)
1.0(25.4)MIN.
0.375(9.5) / 0.285(7.2)
0.210(5.3) / 0.188(4.8)
1.0(25.4)MIN.
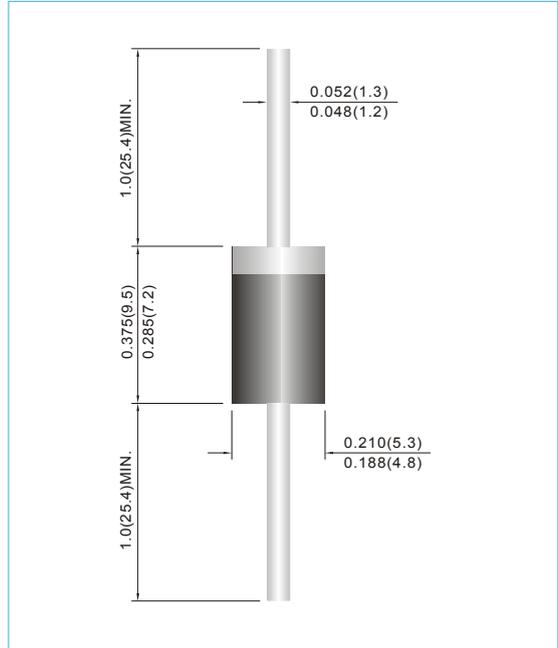
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.

PARAMETER	SYMBOL	UF300	UF301	UF302	UF304	UF306	UF308	UF3010	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current .375"(9.5mm) lead length at T_A=55°C	$I_{F(AV)}$	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		1.7		V
Maximum DC Reverse Current at Rated DC Blocking Voltage T_J=25°C T_J=100°C	I_R	10.0 / 750							μA
Typical Junction Capacitance (Note 1)	C_J	75				50			pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$ / $R_{\theta JC}$	20 / 12							°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							°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. Reverse Recovery Time I_F=.5A ,I_R=1A , I_{rr}=.25A