

UF300~UF3010

ULTRAFAST SWITCHING RECTIFIER

VOLTAGE	50 to 1000 Volt	CURRENT	3 Ampere
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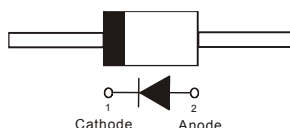
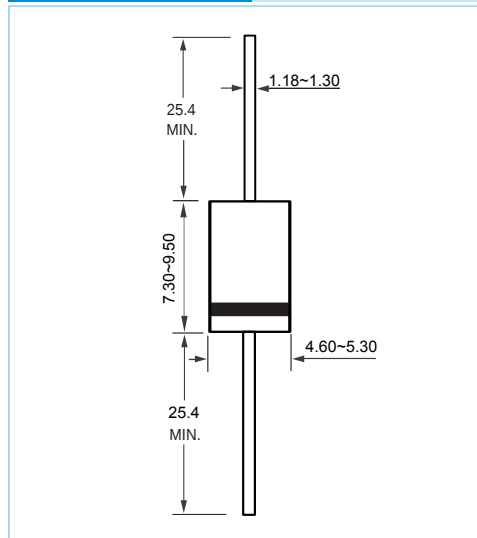
FEATURES

- Low Leakage Current
- High Current Capability
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- Ultra fast recovery for high efficiency
- Moisture Sensitivity Level 1

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0

DO-201AD Unit:mm



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

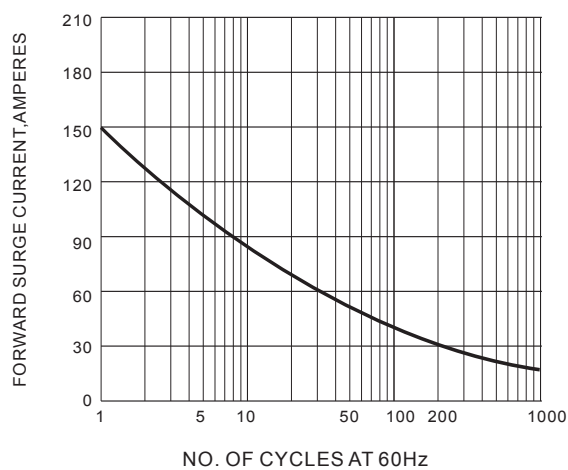
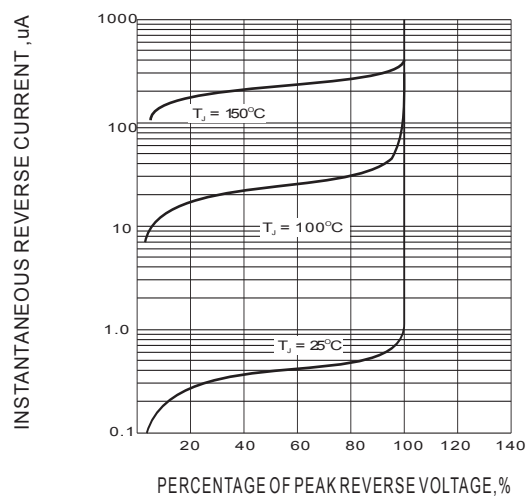
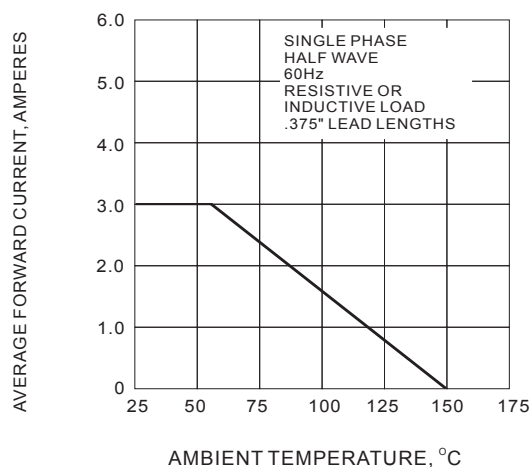
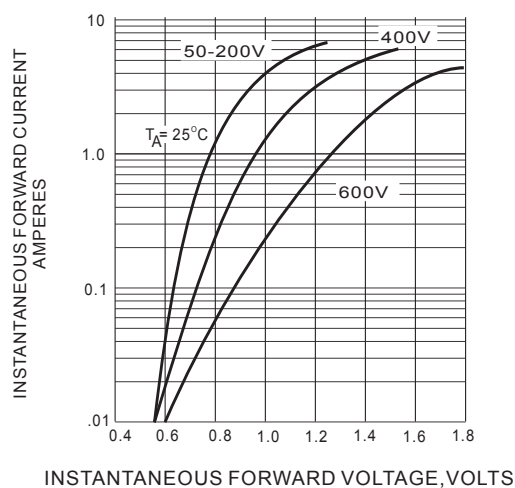
PARAMETER	SYMBOL	UF300	UF301	UF302	UF304	UF306	UF308	UF3010	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current (see FIG.2)	I _{F(AV)}	3							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	150							A
Maximum Forward Voltage at 3A	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	10 200							μA
Typical Junction Capacitance	C _J	75			50				pF
Typical Thermal Resistance	R _{θJA}	50							°C / W
Maximum Reverse Recovery Time	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 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 $I_F=0.5A, I_R=1A, I_{rr}=0.25A$

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RATING AND CHARACTERISTIC CURVES



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Ordering Information

- Packing information

UF300~UF3010	Packing Quantity
Tape&Reel	13 Inch; 1.25kpcs/Reel
Ammo Packing	1.25kpcs/Ammo Box
Bulk(Tube/Box)	0.5kpcs/Box