

UF5400~UF5408

ULTRA FAST RECOVERY RECTIFIER

VOLTAGE 50 to 1000 Volt **CURRENT** 3 Ampere

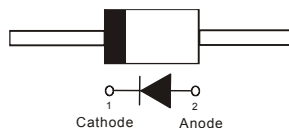
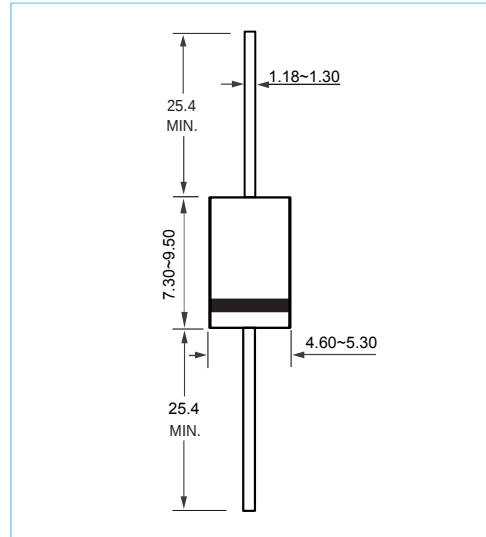
FEATURES

- Low Forward Voltage Drop and Low Leakage
- Ultra Fast Switching Speed For High Efficiency
- Halogen free available upon request by adding suffix "-HF"

MECHANICAL DATA

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

DO-201AD Unit:mm



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

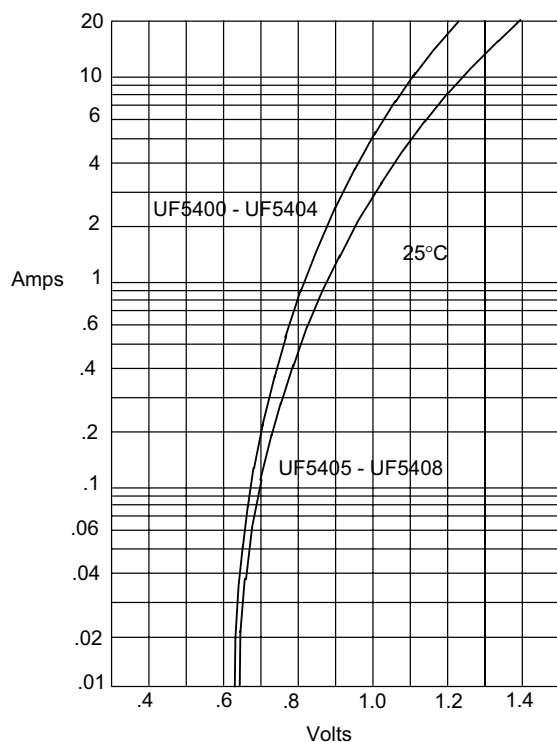
Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	UF5400	UF5401	UF5402	UF5404	UF5406	UF5407	UF5408	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 Voltageat 3 A	V _F	1.0			1.3	1.7			V
Maximum DC Reverse Currentat 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
Maximum Reverse Recovery Time	t _{rr}	50				75			ns
Operating and Storage Temperature Range	T _J ,T _{STG}	-55 to +150							°C

Notes:1.High Temperature Solder Exemption Applied,see EU Directive Annex 7.

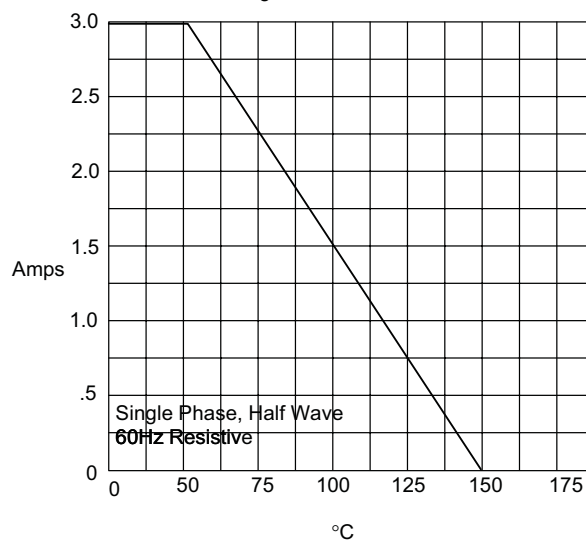
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Figure 1
Typical Forward Characteristics



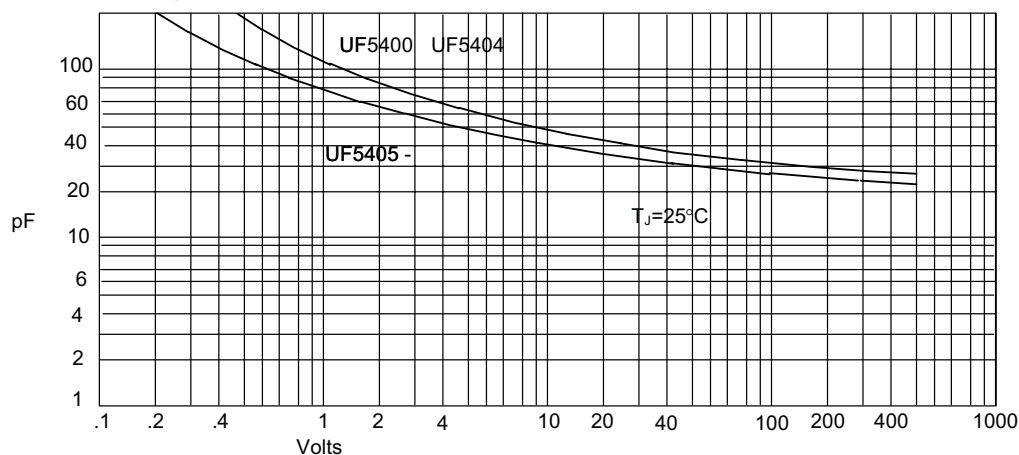
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



Average Forward Rectified Current - Amperes *versus*
Ambient Temperature - °C

Figure 3
Junction Capacitance



Junction Capacitance - pF *versus*
Reverse Voltage - Volts

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Ordering Information

- Packing information

UF5400~UF5408	Packing Quantity
Tape&Reel	13 Inch; 1.25kpcs/Reel
Ammo Packing	1.25kpcs/Ammo Box
Bulk(Tube/Box)	0.5kpcs/Box