

UF100G~UF1010G

GLASS PASSIVATED JUNCTION ULTRAFAST RECOVERY RECTIFIER

VOLTAGE 50 to 1000 Volt **CURRENT** 1.0 Ampere

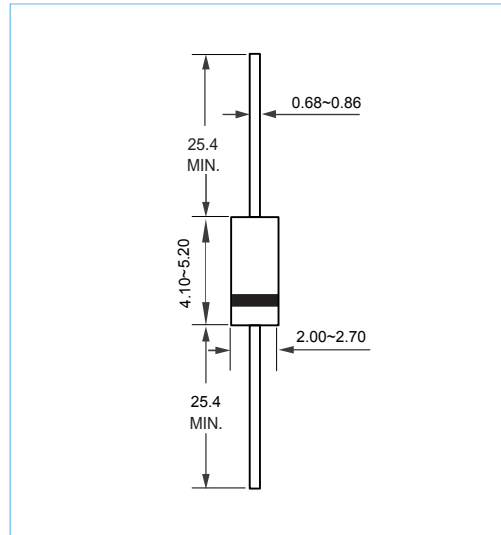
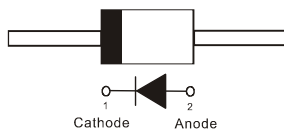
DO-41 Unit:mm

FEATURES

- High efficiency,
- High current capability
- High reliability
- Lead free in compliance with EU RoHS
- Ultra Fast recovery for high efficiency

MECHANICAL DATA

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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	UF100G	UF101G	UF102G	UF104G	UF106G	UF108G	UF1010G	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.1)	$I_{F(AV)}$	1.0							A	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	30							A	
Maximum Forward Voltage at 1.0A	V_F	1.0		1.3		1.7			V	
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J=25^{\circ}C$ $T_J=100^{\circ}C$	I_R					1.0 100			μA	
Typical Junction Capacitance	C_j	17							pF	
Typical Thermal Resistance	$R_{\theta JA}$	60							$^{\circ}C / W$	
Maximum Reverse Recovery Time	t_{rr}	50				100				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. Reverse Recovery Time $I_F=0.5A, I_R=1A, I_{rr}=0.25A$

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RATING AND CHARACTERISTIC CURVES

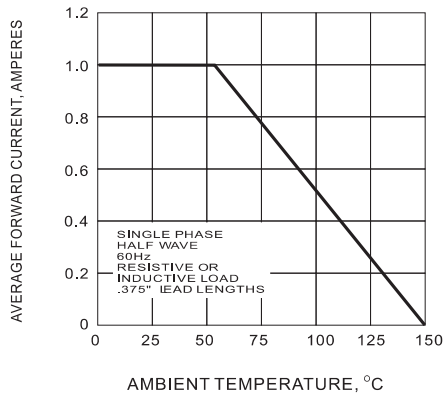


Fig.1 FORWARD CURRENT DERATING CURVE

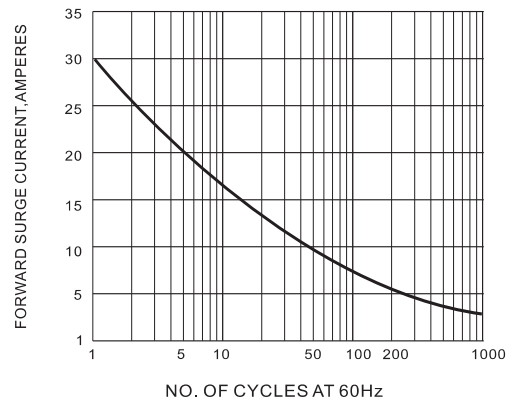


Fig.2 PEAK FORWARD SURGE CURRENT

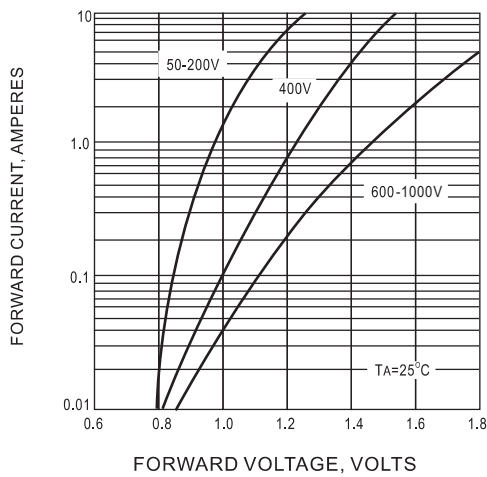


Fig.3 FORWARD CHARACTERISTICS

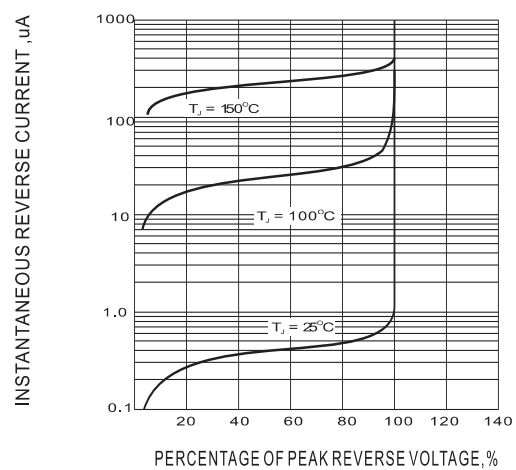


Fig.4 TYPICAL REVERSE CHARACTERISTIC

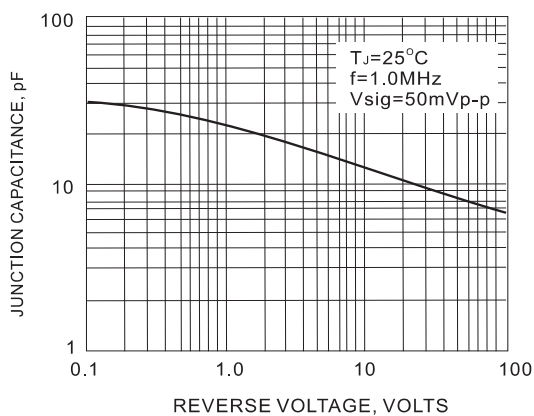


Fig.4 TYPICAL JUNCTION CAPACITANCE

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Ordering Information

- Packing information

UF100G~UF1010G	Packing Quantity
Tape&Reel	13 Inch; 5kpcs/Reel
Ammo Packing	5kpcs/Ammo Box
Bulk(Tube/Box)	1kpcs/Box