

# UF100G SERIES

## GLASS PASSIVATED JUNCTION ULTRAFAST RECOVERY RECTIFIER

**VOLTAGE** 50 to 1000 V<sub>olt</sub> **CURRENT** 1.0 Amperes

**DO-41**

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 recovery for high efficiency.
- Lead free in compliance with EU RoHS 2011/65/EU directive

### MECHANICAL DATA

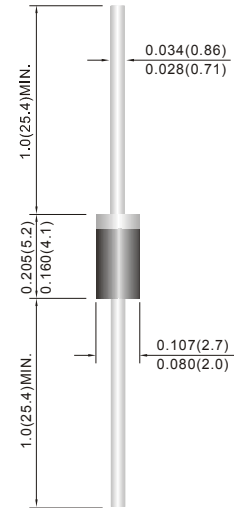
Case: Molded plastic, DO-41

Terminals: Axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Band denotes cathode

Mounting Position: Any

Weight: 0.0118 ounce, 0.336 gram



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	UF100G	UF101G	UF102G	UF104G	UF106G	UF108G	UF1010G	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Current .375"(9.5mm) lead length at TA=55°C	I <sub>F(AV)</sub>	1.0							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I <sub>FSM</sub>	30							A
Maximum Forward Voltage at 1.0A	V <sub>F</sub>	1.0			1.3	1.7			V
Maximum DC Reverse Current at Rated DC Blocking Voltage TJ=25°C TJ=125°C	I <sub>R</sub>	1.0 150							μA
Typical Junction Capacitance (Note 1)	C <sub>J</sub>	17							pF
Typical Thermal Resistance (Note 2)	R <sub>θJA</sub>	60							°C / W
Maximum Reverse Recovery Time (Note 3)	t <sub>rr</sub>	50				100			ns
Operating Junction and Storage Temperature Range	T <sub>J</sub> ,T <sub>STG</sub>	-55 to +150							°C

#### NOTES:

- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- Thermal Resistance from Junction to Ambient and from Junction to lead length 0.375" (9.5mm) P.C.B. mounted.
- Reverse Recovery Time  $I_F=.5A$ ,  $I_R=1A$ ,  $I_{rr}=.25A$

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### RATING AND CHARACTERISTIC CURVES

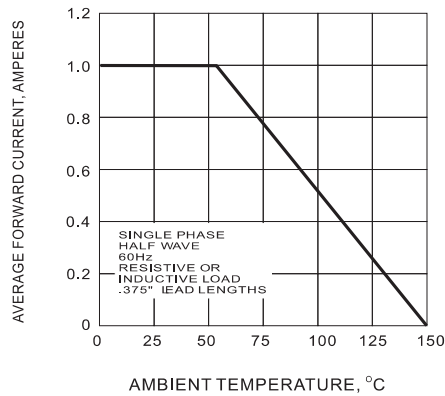


Fig.1 FORWARD CURRENT DERATING CURVE

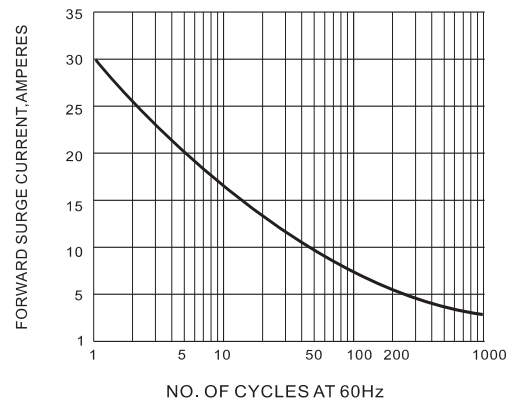


Fig.2 PEAK FORWARD SURGE CURRENT

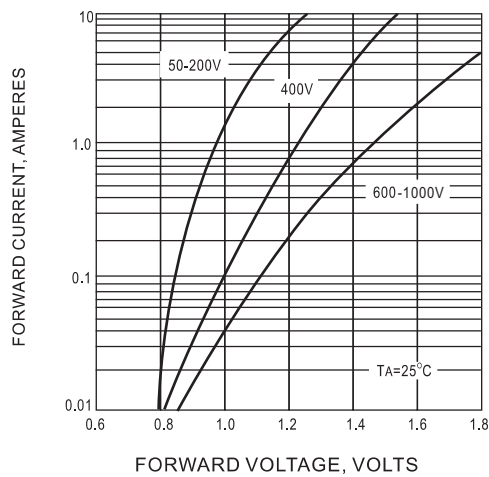


Fig.3 FORWARD CHARACTERISTICS

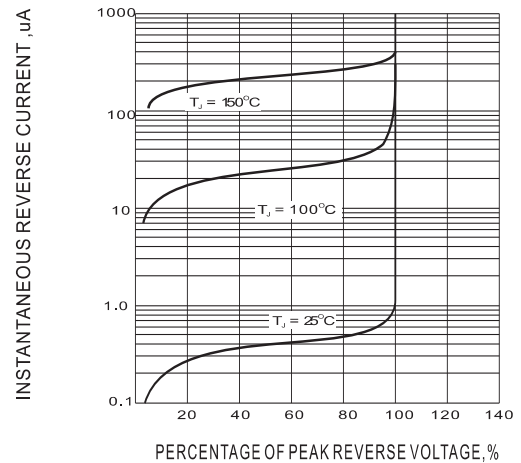


Fig.4-TYPICAL REVERSE CHARACTERISTIC

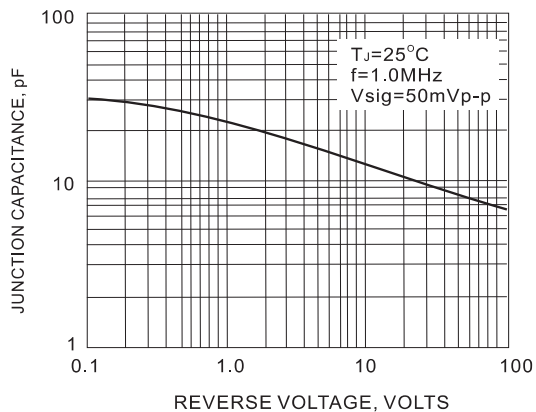


Fig.5 TYPICAL JUNCTION CAPACITANCE

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### Product and Packing Information

Part No.	Package Type	Packing Type	Marking
UF100G	DO-41	5K pcs / Ammo	UF100G
UF101G	DO-41	5K pcs / Ammo	UF101G
UF102G	DO-41	5K pcs / Ammo	UF102G
UF104G	DO-41	5K pcs / Ammo	UF104G
UF106G	DO-41	5K pcs / Ammo	UF106G
UF108G	DO-41	5K pcs / Ammo	UF108G
UF1010G	DO-41	5K pcs / Ammo	UF1010G

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