

UF150G~UF1510G

GLASS PASSIVATED JUNCTION ULTRAFAST RECOVERY RECTIFIER

VOLTAGE	50 to 1000 Volt	CURRENT	1.5 Ampere
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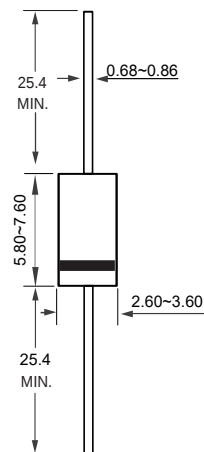
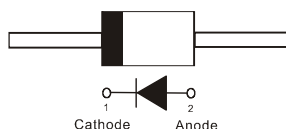
DO-15 Unit:mm

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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	UF150G	UF151G	UF152G	UF154G	UF156G	UF158G	UF1510G	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 0.375"(9.5mm) lead length at $T_A=55^{\circ}C$	$I_{F(AV)}$	1.5							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	50							A
Maximum Forward Voltage at 1.5A	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 50							μA
Typical Junction Capacitance	C_J	25							pF
Typical Thermal Resistance	$R_{\theta JA}$	50							$^{\circ}C / W$
Maximum Reverse Recovery Time	t_{rr}	50				75			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 VDC.
2. Thermal Resistance from Junction to Ambient
3. Reverse Recovery Time $I_F=0.5A, I_R=1A, I_{rr}=0.25A$

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RATING AND CHARACTERISTIC CURVES

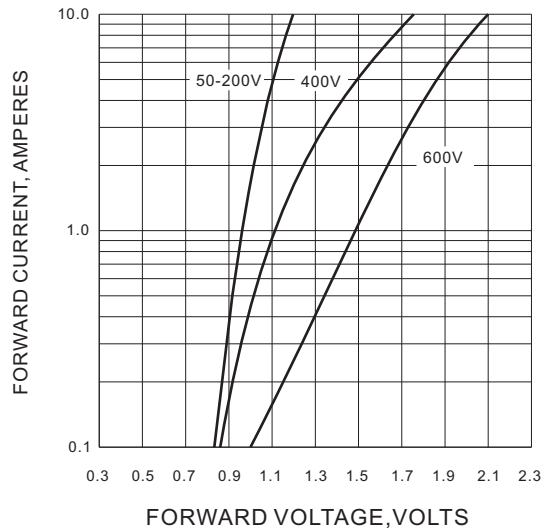


Fig.1 FORWARD CHARACTERISTICS

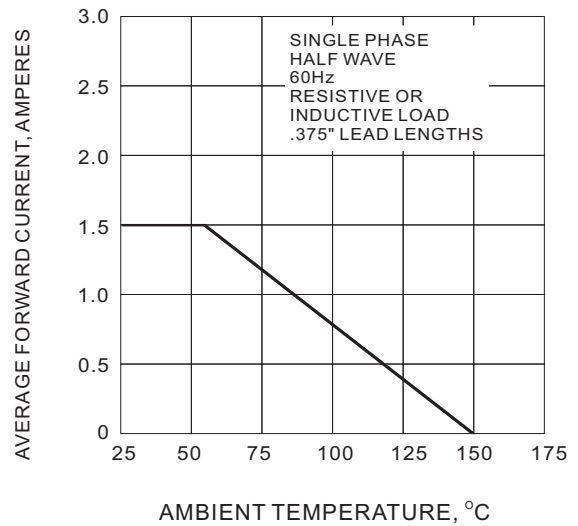


Fig.2 FORWARD CURRENT DERATING CURVE

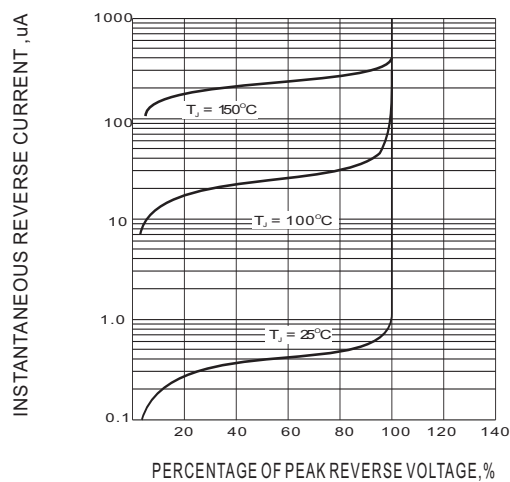


Fig.3- TYPICAL REVERSE CHARACTERISTIC

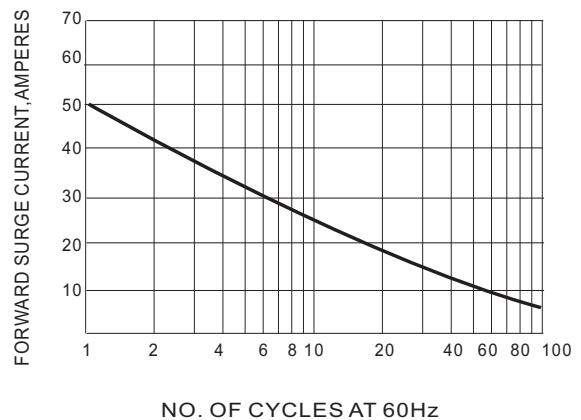


Fig.4 PEAK FORWARD SURGE CURRENT

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ORDER INFORMATION

• Packing information

UF150G~UF1510G	Packing Quantity
Tape&Reel	13 Inch; 4kpcs/Reel
Ammo Packing	3kpcs/Ammo Box
Bulk(Tube/Box)	1kpcs/Box