

PG300R~PG3010R

GLASS PASSIVATED JUNCTION FAST RECOVERY RECTIFIER

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

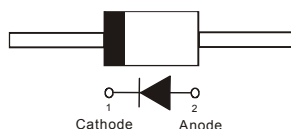
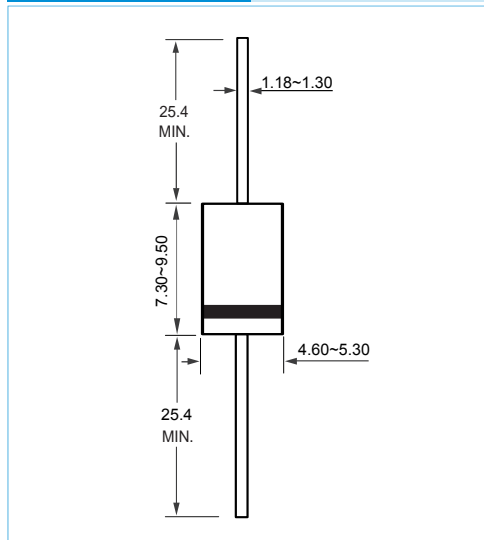
DO-201AD Unit:mm

FEATURES

- High current capability
- Low leakage
- Fast switching for high efficiency.
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)

MECHANICAL DATA

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



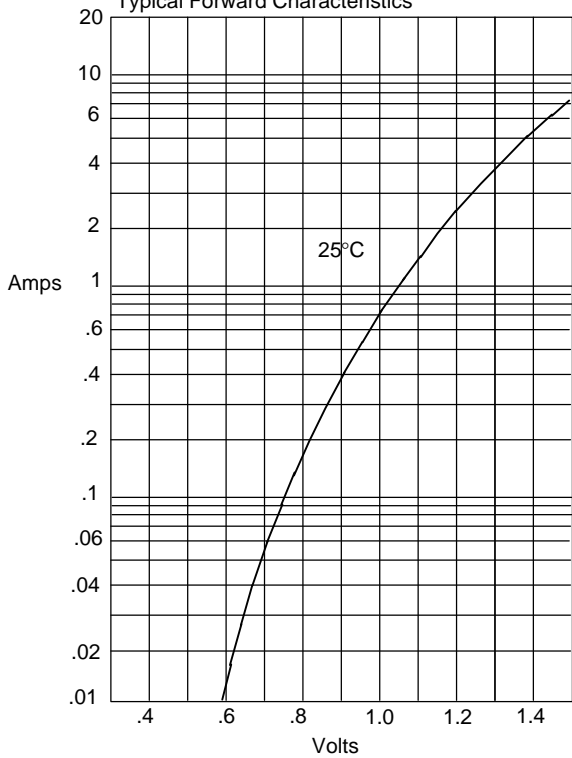
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	PG300R	PG301R	PG302R	PG304R	PG306R	PG308R	PG3010R	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}	125							A
Maximum Forward Voltage at 3A	V_F	1.3							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	50							pF
Maximum Reverse Recovery Time	t_{rr}	150				250	500		ns
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150							$^{\circ}C$

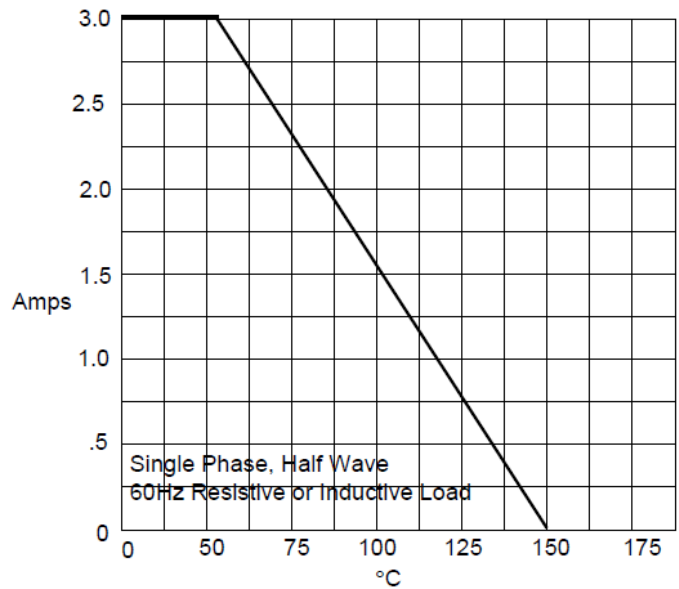
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Figure 1
Typical Forward Characteristics



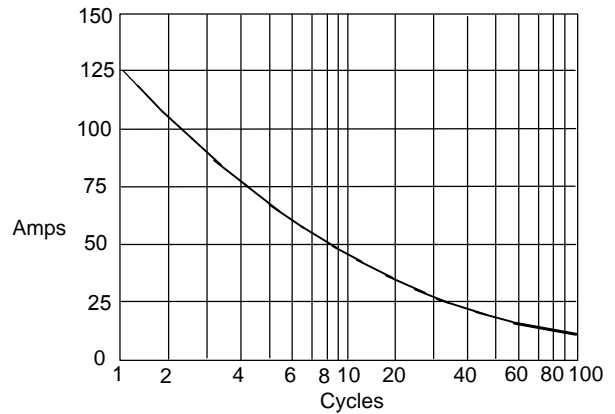
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



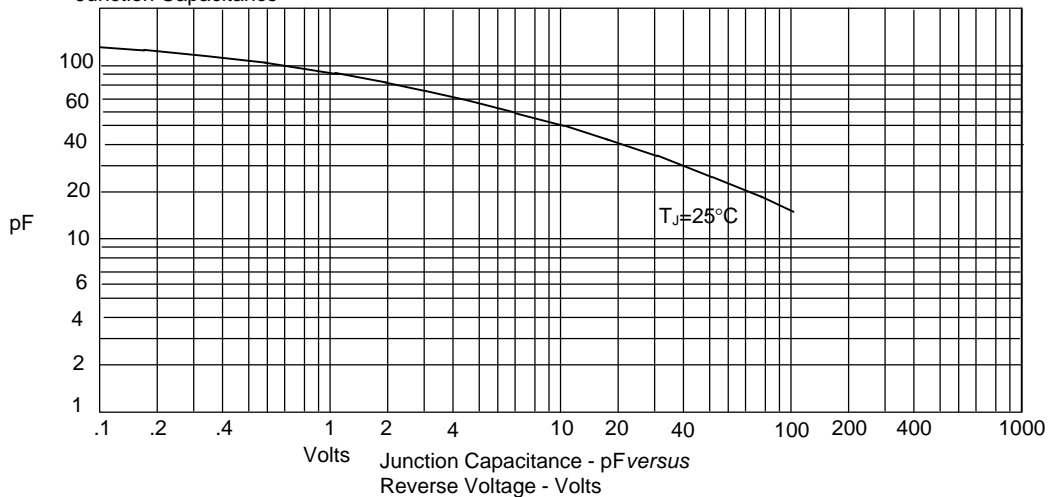
Average Forward Rectified Current - Amperes versus
Ambient Temperature - °C

Figure 4
Peak Forward Surge Current



Peak Forward Surge Current - Amperes versus
Number Of Cycles At 60Hz - Cycles

Figure 3
Junction Capacitance



Junction Capacitance - pF versus
Reverse Voltage - Volts

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Ordering Information

- Packing information

PG300R~PG3010R	Packing Quantity
Tape&Reel	13 Inch; 1.25kpcs/Reel
Ammo Packing	1.25kpcs/Ammo Box
Bulk(Tube/Box)	0.5kpcs/Box