

PR301G~PR307G

FAST RECOVERY PLASTIC RECTIFIER

VOLTAGE	50 to 1000 Volt	CURRENT	3.0 Ampere
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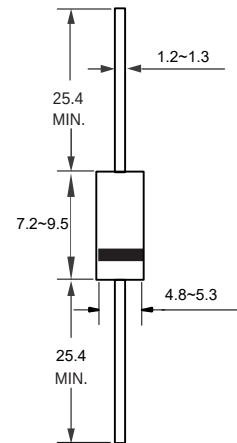
DO-201AD Unit:mm

FEATURES

- Glass Passivated Junction
- Low Leakage Current
- High current capability
- High reliability
- Lead free in compliance with EU RoHS

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	PR301G	PR302G	PR303G	PR304G	PR305G	PR306G	PR307G	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	7000	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)}	3.0							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	150							A
Maximum For w ard Volt age at 3.0 A	V _F	1.30							V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _J = 2 5 °C T _J = 1 0 0 °C	I _R	5.0 100							μA
Maximum Reverse Recovery Time(Note 1)	t _{rr}	150				250	500		ns
Typical Junction Capacitance (Note2)	C _J	50							pF
Operating Junction Temperature Range	T _J	-55 to + 150							°C
Storage Temperature Range	T _{STG}	-55 to + 150							°C

NOTES:

1. Reverse Recovery Test Conditions: $I_F=0.5A$, $I_R=1.0A$, $I_{rr}=0.25A$
2. Measured at 1.0MHz and applied reverse voltage of 4.0 volt

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RATING AND CHARACTERISTIC CURVES

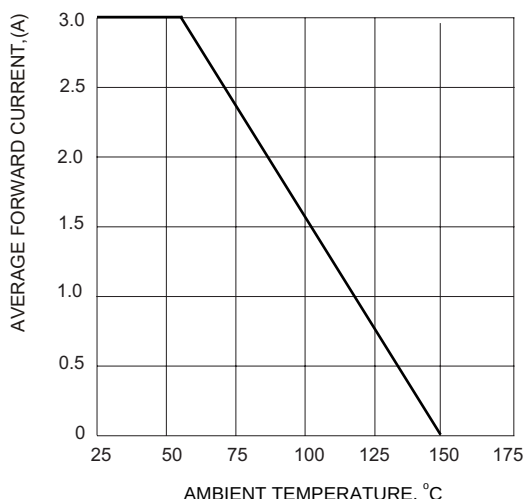


Fig. 1 Forward Current Derating Curve

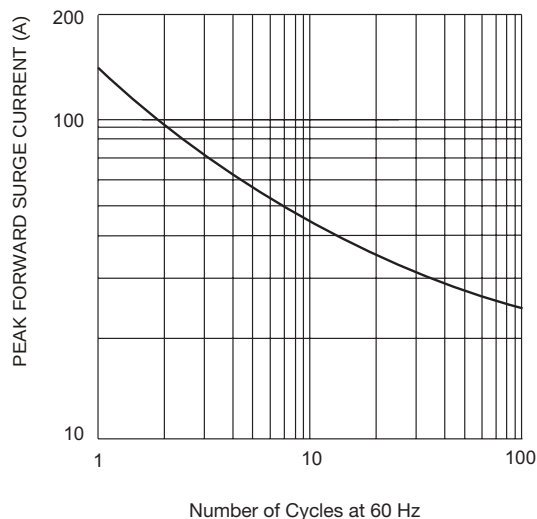


Fig. 2 Surge Current Derating Curve

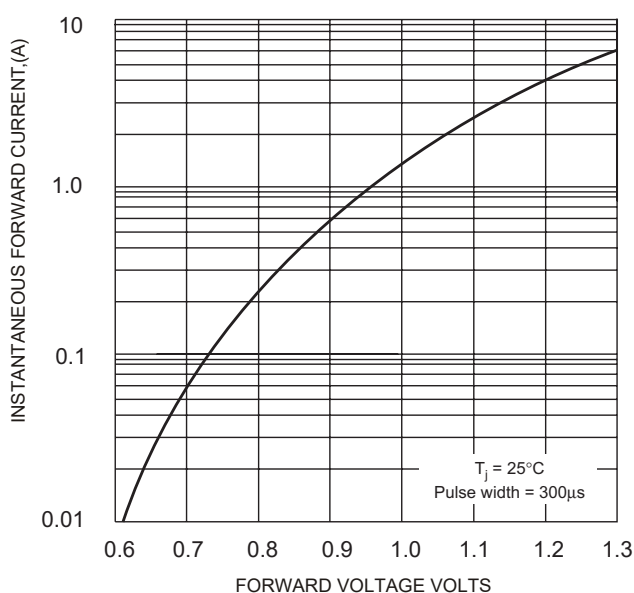


Fig. 3 Typical Forward Characteristics

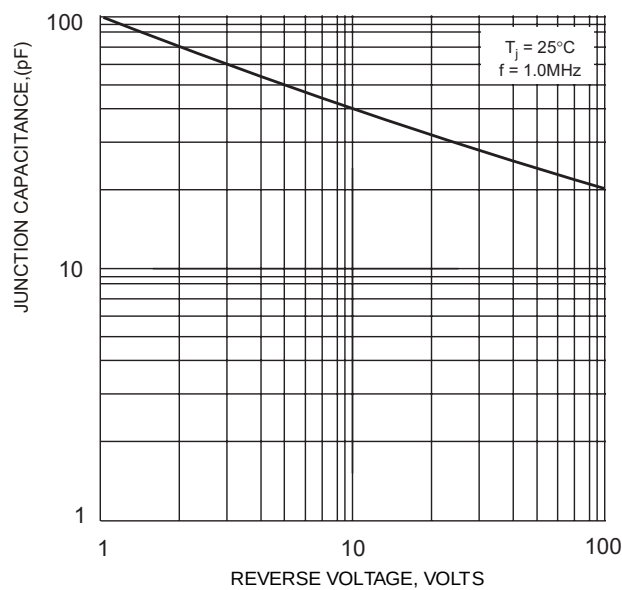
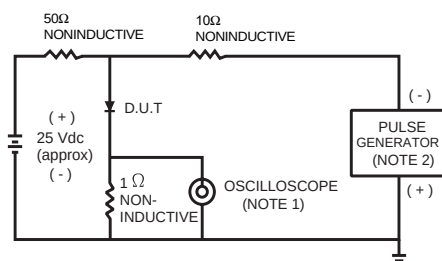


Fig. 4 Typical Junction Capacitance



NOTES:
3. Rise time = 7.0 ns max; Input impedance = 1.0 megaohm 22 pf.
4. Rise time = 10 ns max; Source impedance = 50 ohms.

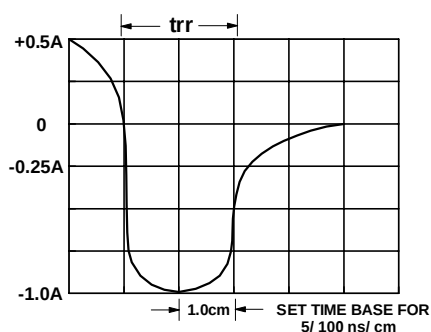


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

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ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
PR301G~PR30G7	DO-201AD	13 Inch	1200