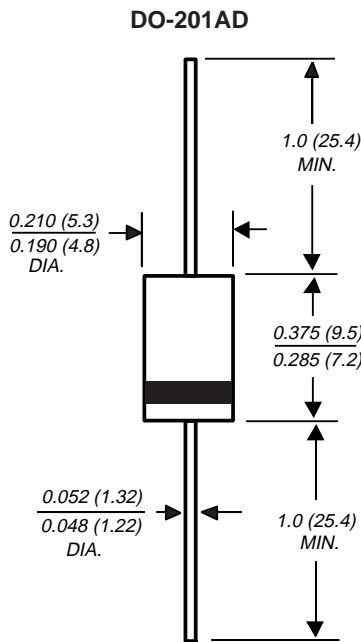


Medium-Switching Plastic Rectifier

Reverse Voltage 500 to 800 V
Forward Current 3.0 A



Dimensions in inches and (millimeters)

Features

- Plastic package has Underwriters Laboratories Flammability Classification 94V-0
- High surge current capability
- Construction utilizes void-free molded plastic technique
- High forward current operation
- Fast switching for high efficiency
- High temperature soldering guaranteed: 250°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

Mechanical Data

Case: JEDEC DO-201AD, molded plastic body

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

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.04 oz., 1.1 g

Packaging codes/options:

1/Bulk - 1.5K per container, 15K per box

4/1.4K per 13" reel, 5.6K per box

23/1K per Ammo. mag., 9K per box

Maximum Ratings & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	GI910	GI911	GI912	GI914	GI916	GI918	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	V
Maximum average forward rectified current 0.375" (9.5mm) lead length at T _A =90°C	I _{F(AV)}	3.0						A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	100						A
Typical thermal resistance ⁽¹⁾	R _{θJA} R _{θJL}	22 8.0						°C/W
Operating junction and storage temperature range	T _J , T _{STG}	-50 to +150						°C

Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	GI910	GI911	GI912	GI914	GI916	GI918	Unit
Maximum instantaneous forward voltage at 3.0A 9.4A, T _J =175°C	V _F	1.25 1.10						V
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =100°C	I _R	10 300						μA
Maximum reverse recovery time at I _F =1.0A, V _R =30V, di/dt=50A/μs, I _{rr} =10% I _{RM}	t _{rr}	750						ns
Maximum reverse recovery time at I _F =1.0A, V _R =30V, di/dt=50A/μs, I _{rr} =10% I _{RM}	I _{RM(REC)}	2.0						A
Typical junction capacitance at 4.0V, 1MHz	C _J	28						pF

Notes: (1) Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5mm) lead length, with both leads equally heat sink

Ratings and Characteristic Curves (T_A = 25°C unless otherwise noted)

Fig. 1 – Forward Current Derating Curves

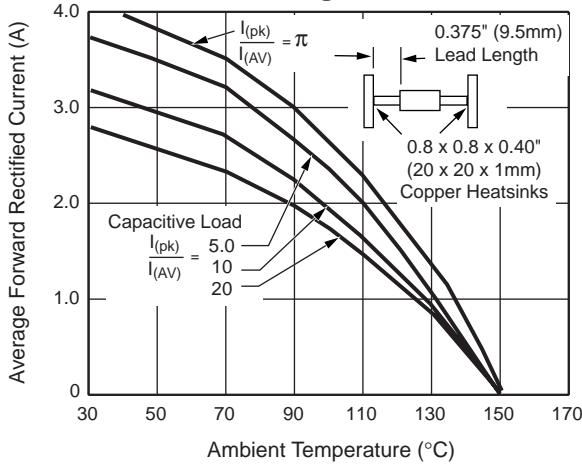


Fig. 2 – Maximum Peak Forward Surge Current

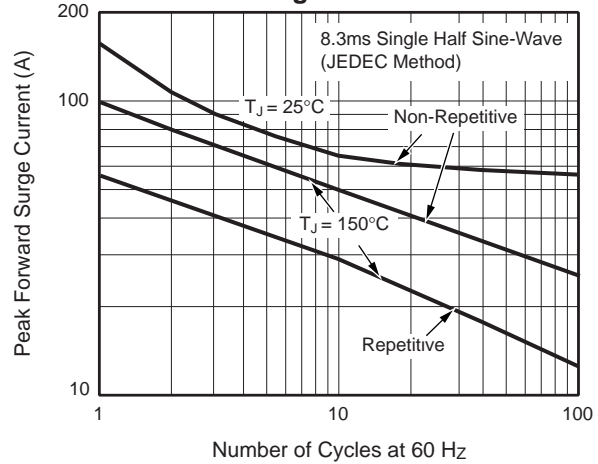


Fig. 3 – Typical Instantaneous Forward Characteristics

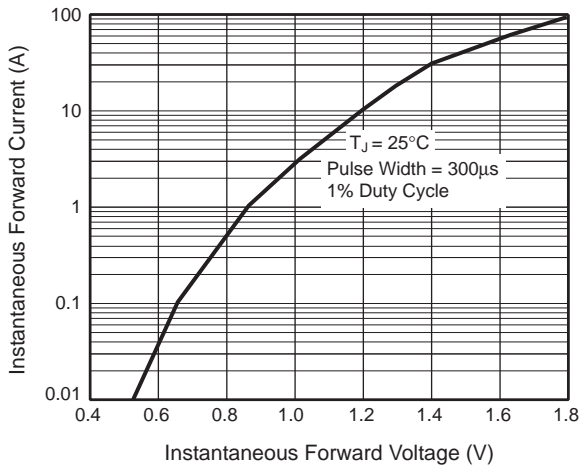


Fig. 4 – Typical Reverse Characteristics

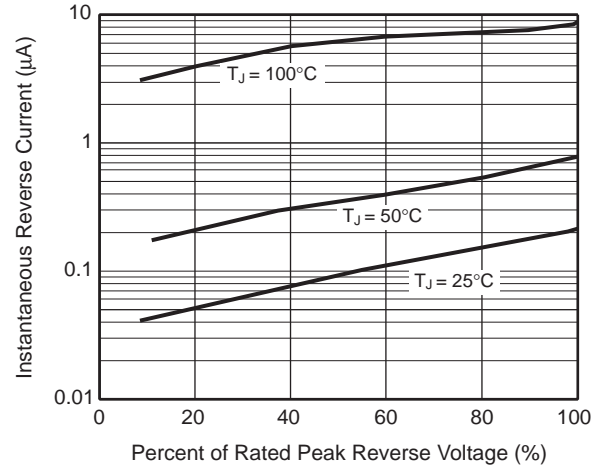
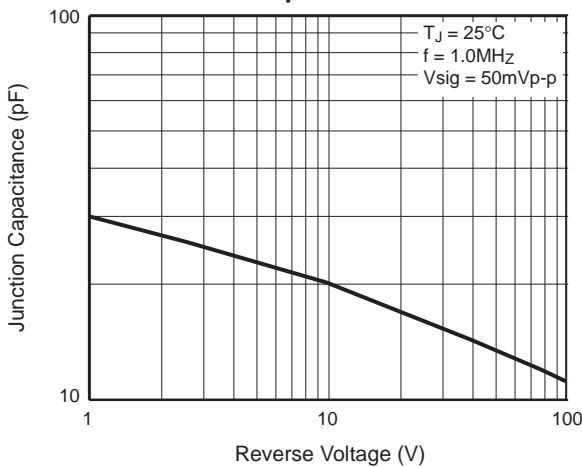


Fig. 5 – Typical Junction Capacitance





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