

RL251G THRU RL257G

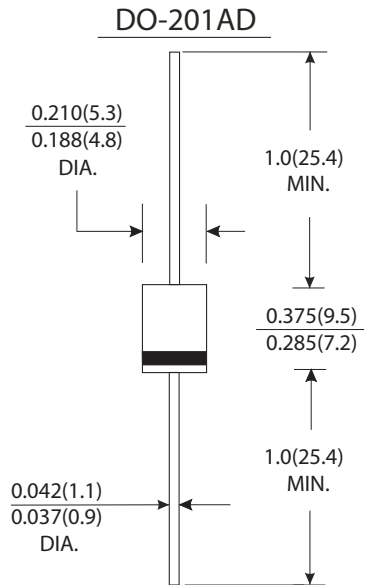
CURRENT 2.5Amperes
VOLTAGE 50 to 1000 Volts

Features

- The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- High current capability
- Low reverse leakage
- Glass passivated junction
- Low forward voltage drop
- High temperature soldering guaranteed : 350 °C /10 seconds, 0.375"(9.5mm) lead length, 5lbs.(2.3kg) tension

Mechanical Data

- Case : JEDEC DO-201AD molded plastic body
- Terminals : Lead solderable per MIL-STD-750, method 2026
- Polarity : Color band denotes cathode end
- Mounting Position : Any
- Weight : 0.021 ounce, 0.60 gram



Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

(Ratings at 25 °C ambient temperature unless otherwise specified, Single phase, half wave 60Hz, resistive or inductive load. For capacitive load, derate by 20%)

	Symbols	RL 251G	RL 252G	RL 253G	RL 254G	RL 255G	RL 256G	RL 257G	Units
Maximum recurrent peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current 0.375"(9.5mm) lead length T _A =75 °C	I _(AV)	2.5							Amps
Peak forward surge current 8.3ms half sine wave superimposed on rated load (JEDEC method)	I _{FSM}	150.0							Amps
Maximum instantaneous forward voltage at 2.5A	V _F	1.1							Volts
Maximum reverse current at rated DC blocking voltage	T _A =25 °C	5.0							μA
	T _A =100 °C	50.0							
Typical thermal resistance (Note 2)	R _{θJA}	35.0							°C/W
Typical junction capacitance (Note 1)	C _J	35.0							pF
Operating and storage temperature range	T _J T _{STG}	-50 to +175							°C

Notes:

- (1) Measured at 1MHz and applied reverse voltage of 4.0V DC.
- (2) Thermal resistance from junction to ambient at 0.375"(9.5mm) lead length, P.C.B. mounted



RATINGS AND CHARACTERISTIC CURVES RL251G THRU RL257G

FIG.1-FORWARD CURRENT DERATING CURVE

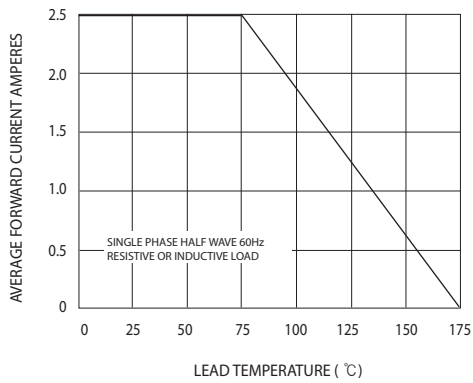


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

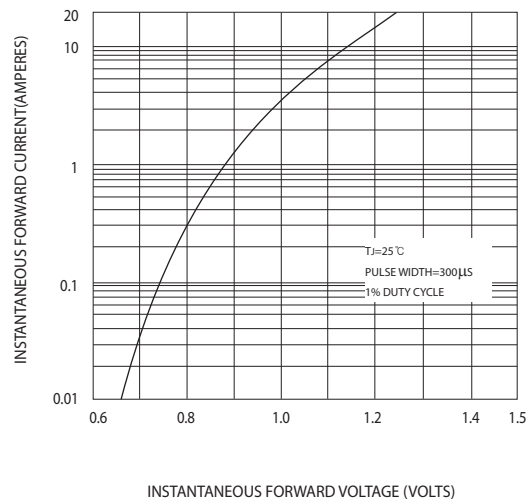


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

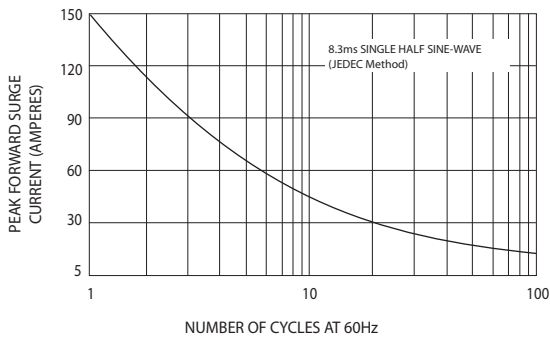


FIG.4-TYPICAL REVERSE CHARACTERISTICS

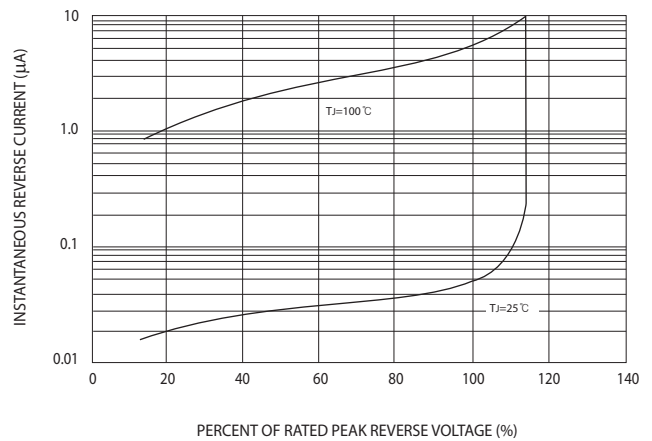


FIG.5-TYPICAL JUNCTION CAPACITANCE

