

CURRENT 1.0 Ampere
 VOLTAGE RANG 50 to 1000 Volts

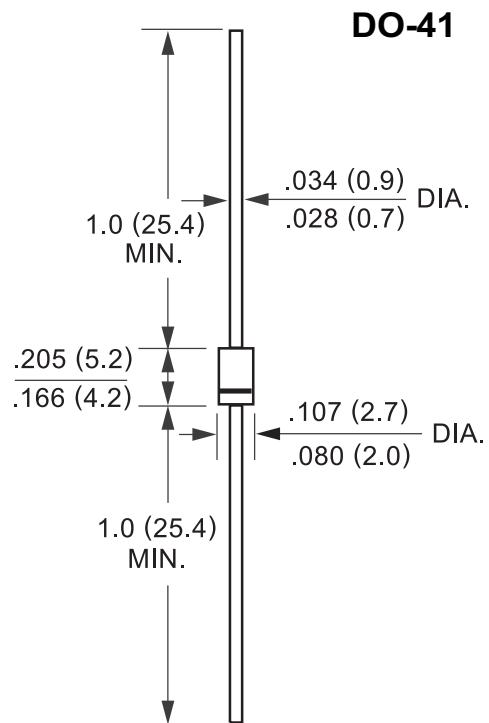
RL101 THRU RL107

FEATURES

- Low coat construction
- Low forward voltage drop
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:
260°C/10 seconds/.375"(9.5mm)lead length at 5 lbs(2.3kg) tension

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V-O rate flame retardant
- Polarity: Color band denotes cathode end
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: Any
- Weight: 0.012 ounce, 0.33 grams



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 current by 20%

	SYMBOLS	RL101	RL102	RL103	RL104	RL105	RL106	RL107	UNIT
Maximum Repetitive 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 at T _A = 25°C	I _(AV)					1.0			Amps
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)	I _{FSM}					30			Amps
Maximum Instantaneous Forward Voltage @ 1.0A	V _F				1.0				Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage per element	I _R				5.0				µA
Maximum Full Load Reverse Current, full cycle average 0.375"(9.5mm)lead length at T _L =75°C	I _{R(AV)}				30				µA
						13			pF
Typical Junction Capacitance (Note 1)	C _J				50				°C/W
Typical Thermal Resistance (Note 2)	R _{θJA}				-55 to +150				°C
Operating Junction Temperature Range	T _J								°C
Storage Temperature Range	T _{STG}								°C

Notes:

1. Measured at 1.0MHz and Applied Reverse Voltage of 4.0V DC.
2. Thermal Resistance from junction to terminal 6.0mm² copper pads to each terminal.
3. The chip size is 40mil × 40mil

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RATING AND CHARACTERISTIC CURVES RL101 Thru RL107

