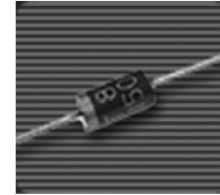


## Features

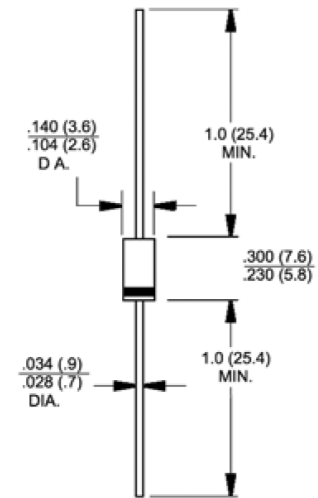
- ◆ Glass passivated chip
- ◆ Low reverse leakage current
- ◆ Low forward voltage drop
- ◆ High current capability
- ◆ Plastic material has UL flammability classification 94V-0



DO-204AC (DO-15)

## Mechanical Data

- ◆ Case : JEDEC DO-204AC(DO-15) molded plastic
- ◆ Polarity : Color band denotes cathode
- ◆ Weight : 0.014 ounce, 0.395 gram
- ◆ Mounting position : Any



## 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%

Parameter	Symbols	RL151G	RL152G	RL153G	RL154G	RL155G	RL156G	RL157G	Units
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 @ $T_A=55^\circ\text{C}$	$I_{(AV)}$	1.5							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	50.0							Amps
Maximum forward Voltage at 1.5A DC	$V_F$	1.1							Volts
Maximum DC reverse current @ $T_J=25^\circ\text{C}$ at rated DC blocking voltage @ $T_J=125^\circ\text{C}$	$I_R$	5.0 200							$\mu\text{A}$
Typical junction capacitance (Note 1)	$C_J$	15							pF
Typical thermal resistance (Note 2)	$R_{\theta JA}$	25							$^\circ\text{C/W}$
Operating junction temperature range	$T_J$	-55 to +150							$^\circ\text{C}$
Storage temperature range	$T_{STG}$	-55 to +150							$^\circ\text{C}$

- Notes:**
1. Measured at 1.0MHz and applied reverse voltage of 4.0V D.C.
  2. Thermal Resistance Junction to Ambient

# RATINGS AND CHARACTERISTIC CURVES

