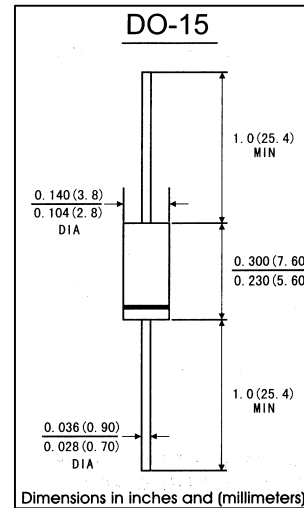


FEATURES

- . The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- . Construction utilizes void-free molded plastic technique
- . High surge current capability
- . 2.0A operation at $T_L=75^{\circ}\text{C}$ with no thermal runaway
- . Low reverse leakage
- . High temperature soldering guaranteed: $250^{\circ}\text{C}/10$ seconds, $0.375''(9.5\text{mm})$ lead length, $5\text{lbs.}(2.3\text{kg})$ tension

MECHANICAL DATA

- . **Case:** JEDEC DO-15 molded plastic body
- . **Terminals:** lead solderable per MIL-STD-750,method 2026
- . **Polarity:** Color band denotes cathode end
- . **Mounting Position:** Any
- . **Weight:** 0.014 ounce, 0.33 gram



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 201	RL 202	RL 203	RL 204	RL 205	RL 206	RL 207	Units
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	300	400	600	200	1000	Volts
Maximum RMS voltage	V_{RMS}	35	70	210	280	420	140	700	Volts
Maximum DC blocking voltage	V_{DC}	50	100	300	400	600	200	1000	Volts
Macimum average forward rectified current $0.375''(9.5\text{mm})$ lead length at $T_A=70^{\circ}\text{C}$	$I_{(AV)}$	2.0							Amps
Peak forward surge current 8.3ms sing-wave superimposed on rated load (JEDEC method) $T_A=70^{\circ}\text{C}$	I_{FSM}	70.0							Amps
Maximum instantaneous forward voltage at 1.5 A	V_F	1.1							Volts
Maximum reverse current at rated DC blocking voltage	$T_A=25^{\circ}\text{C}$	I_R							μA
	$T_A=100^{\circ}\text{C}$								
Typeical thermal resistance(Note 2)	$R\theta_{JA}$	40.0							$^{\circ}\text{C}/\text{W}$
Typical junction Capacitance(Note 1)	C_J	20.0							pF
Operating and storage temperature range	T_J	-50 to +175							$^{\circ}\text{C}$
	T_{STG}								

Notes: 1. Measured at 1MHz and applied reverse voltage of 4.0V DC

2. Thermal resistance from junction to ambient and from junction lead at $0.375''(9.5\text{mm})$ lead length, P.C.B. Mounted

RATINGS AND CHARACTERISTIC CURVES RL201 THRU RL207

FIG.1-FORWARD CURRENT DERATING CURVE

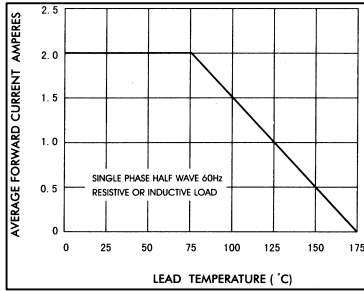


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

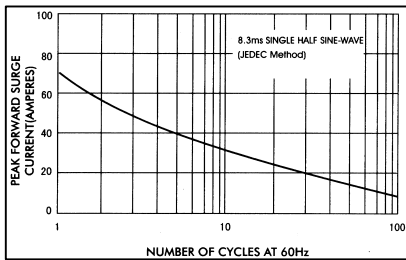


FIG.5-TYPICAL JUNCTION CAPACITANCE

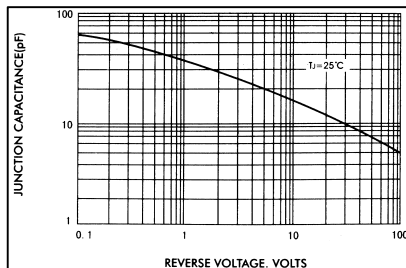


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

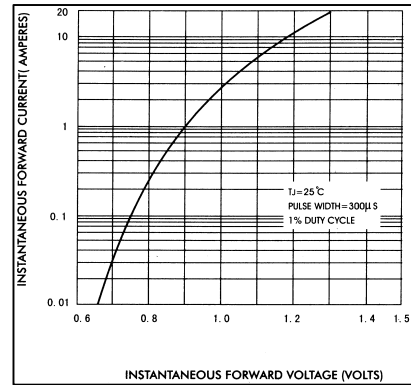


FIG.4-TYPICAL REVERSE CHARACTERISTICS

