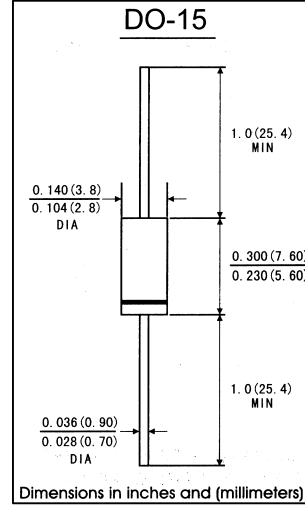


FEATURES

- . 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"(9.5mm)lead length,5lbs.(2.3kg)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"(9.5mm)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	$T_A=25^{\circ}\text{C}$	5.0							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 T_{STG}	-50 to +175							$^{\circ}\text{C}$

- 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"(9.5mm)lead length, P.C.B. Mounted

RATINGS AND CHARACTERISTIC CURVES RL201 THRU RL207

FIG.1-FORWARD CURRENT DERATING CURVE

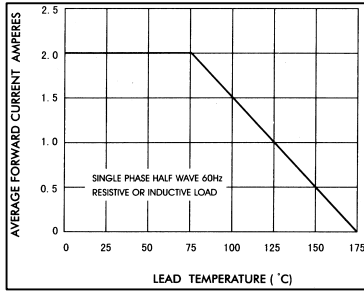


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

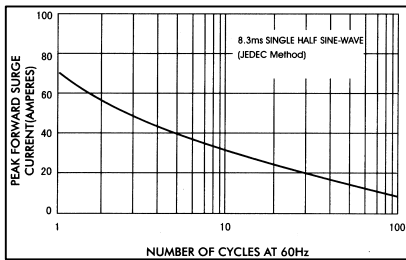


FIG.5-TYPICAL JUNCTION CAPACITANCE

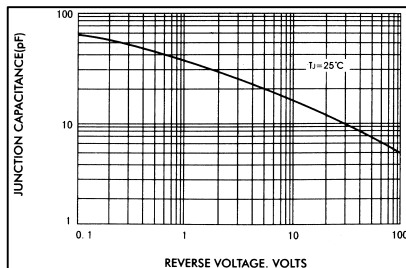


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

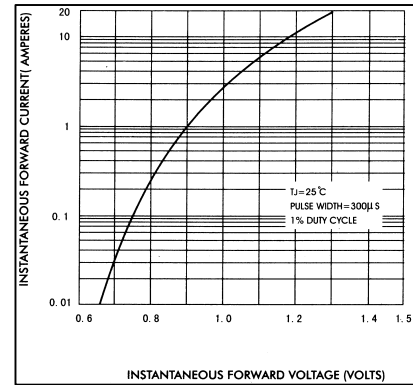


FIG.4-TYPICAL REVERSE CHARACTERISTICS

