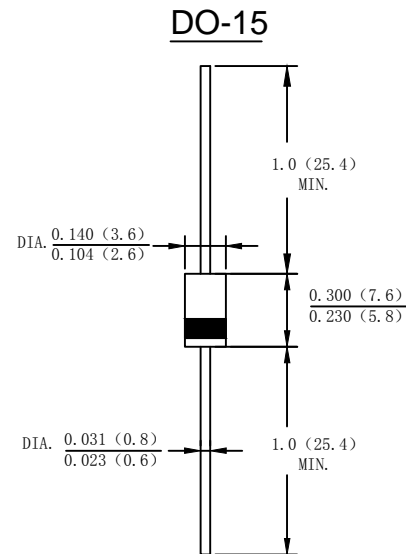


### Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

### Mechanical Data

- Case: Molded plastic DO-15
- Terminals: Plated leads solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.40Grams



### Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load

For capacitive load derate current by 20%

Type Number	SYMBOL	RL 201G	RL 202G	RL 203G	RL 204G	RL 205G	RL 206G	RL 207G	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Average Rectified Output Current (Note 1) @ $T_L = 100^\circ C$	$I_{F(AV)}$	2.0							A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	50							A
$I^2t$ Rating for Fusing ( $t < 8.3ms$ )	$I^2t$	10.375							A <sup>2</sup> s
Forward Voltage @ $I_F = 2.0A$	$V_{FM}$	1.0							V
Peak Reverse Current @ $T_A = 25^\circ C$	$I_R$	5.0							uA
At Rated DC Blocking Voltage @ $T_A = 125^\circ C$		100							
Typical Junction Capacitance (Note 2)	$C_j$	8							pF
Typical Thermal Resistance Junction to Ambient (Note 3)	$R_{\theta JA}$	65							°C/W
Operating Temperature Range	$T_j$	-65 to +150							°C
Storage Temperature Range	$T_{STG}$	-65 to +150							°C

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

3. P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

FIG. 1 - FORWARD CURRENT DERATING CURVE

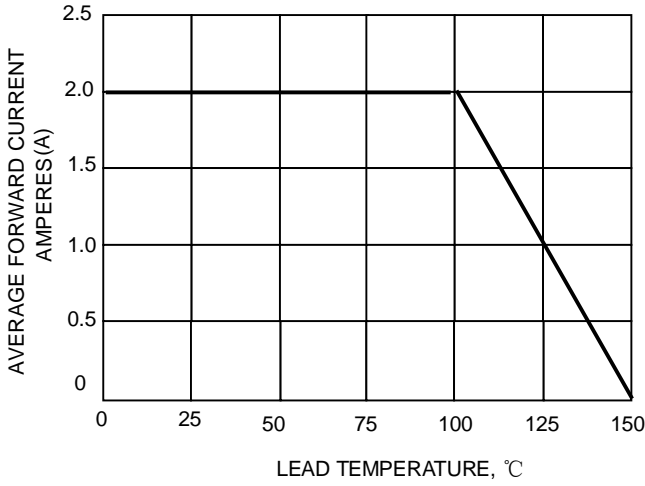


FIG.2 – TYPICAL FORWARD CHARACTERISTICS

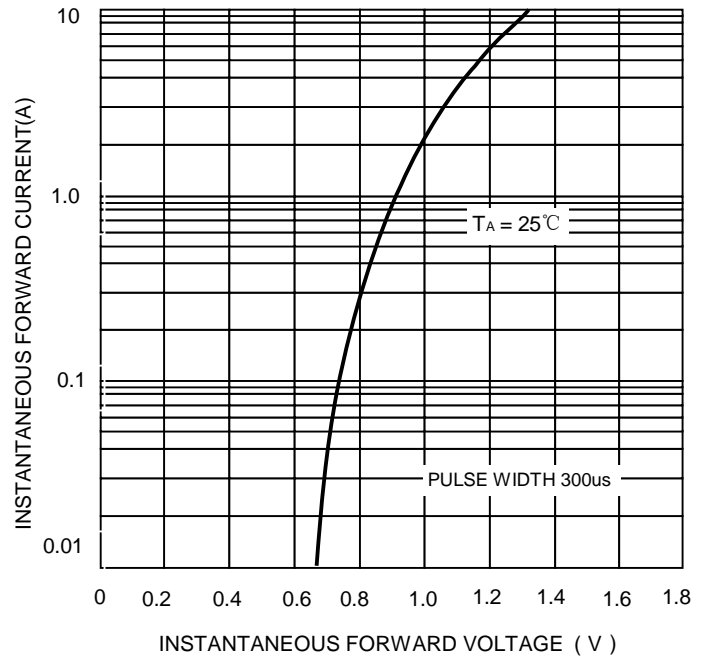


FIG. 3 – MAXIMUM NON-REPETITIVE SURGE CURRENT

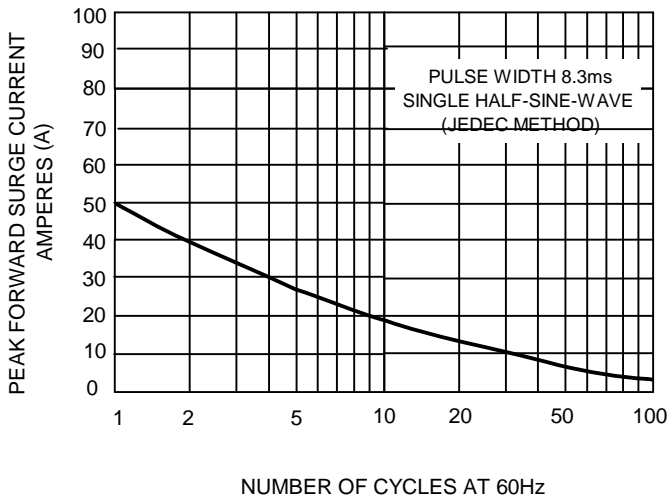
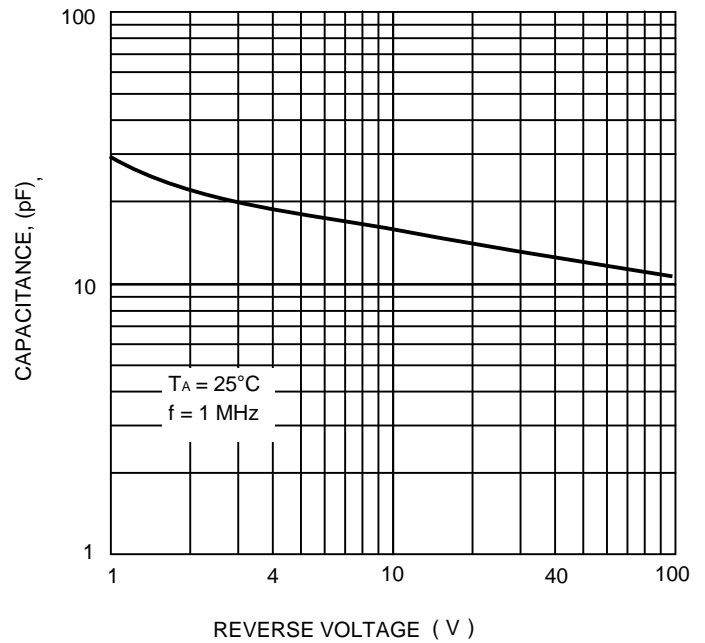


FIG. 4 – TYPICAL JUNCTION CAPACITANCE



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