

VOLTAGE RANGE 50 to 1000 Volts  
CURRENT 2.0 Amperes



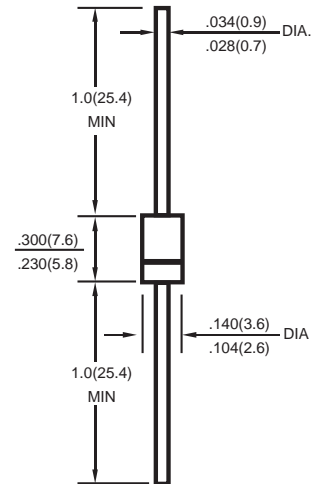
### Features

- ✧ Low cost construction
- ✧ Low forward voltage drop
- ✧ Low reverse leakage
- ✧ High forward surge current capability
- ✧ High temperature soldering guaranteed:  
260°C/10 seconds/0.375" (9.5mm) lead length  
at 5 lbs (2,3kg) tension

### Mechanical Data

- ✧ **Case:** Transfer molded plastic
- ✧ **Epoxy:** UL94V-0 rate flame retardant
- ✧ **Polarity:** Color band denotes cathode end
- ✧ **Mounting position:** Any
- ✧ **Weight:** 0.39 gram

### DO-15



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%

Type Number	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	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 $T_A=50^\circ C$	$I_{(AV)}$	2.0							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	70							Amps
Maximum Instantaneous Forward Voltage at 2.0A	$V_F$	1.0							Volts
Maximum DC Reverse Current at rated DC blocking voltage	$T_A=25^\circ C$	5.0							$\mu$ Amps
	$T_A=100^\circ C$	50							
Maximum Full Load Reverse Current, full cycle average 0.375" (9.5mm) lead length at $T_L=75^\circ C$	$I_{R(AV)}$	30							$\mu$ Amps
Typical Junction Capacitance(NOTE1)	$C_J$	20							pF
Typical Thermal Resistance(NOTE2)	$R_{\theta JA}$	40							$^\circ C/W$
Operating and Storage Temperature Range	$T_J, T_{STG}$	-65 to +175							$^\circ C$

#### NOTES:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.

2. Thermal Resistance from Junction to Ambient at 0.375" (9.5mm) lead length, P.C. board mounted .

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

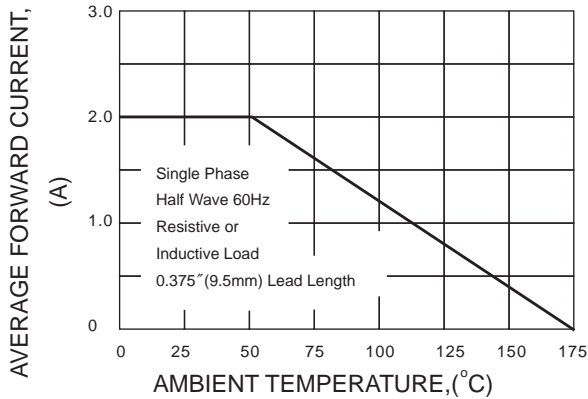


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

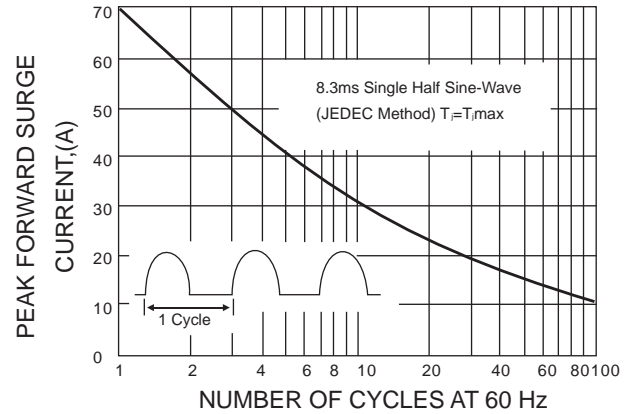


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

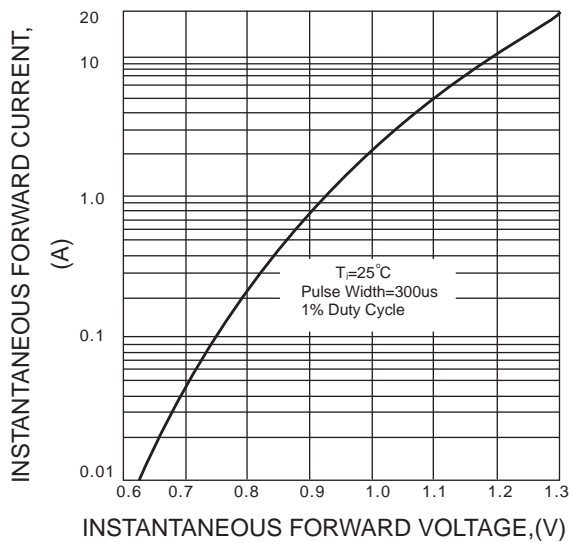


FIG.4-TYPICAL REVERSE CHARACTERISTICS

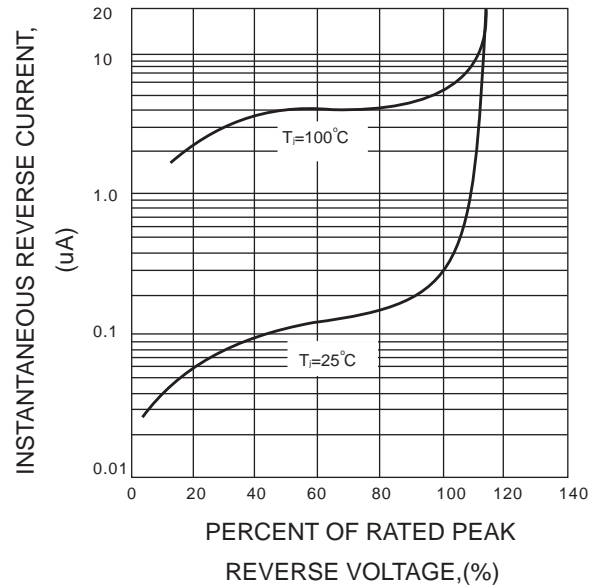


FIG.5-TYPICAL JUNCTION CAPACITANCE

