



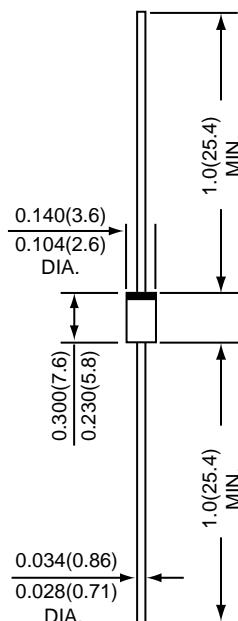
# RL201 THRU RL207

## SILICON RECTIFIER

Reverse Voltage - 50 to 1000 Volts

Forward Current - 2.0 Amperes

**DO-204AC**



\*Dimensions in inches and (millimeters)



### FEATURES

- \* Low cost
- \* Low reverse leakage
- \* Low forward voltage drop
- \* High current capability

### MECHANICAL DATA

**Case :** JEDEC DO-204AC molded plastic  
**Epoxy :** UL 94V-O rate flame retardant  
**Lead :** MIL-STD-202F method 208C guaranteed  
**Mounting Position :** Any  
**Weight :** 0.38 gram

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.	SYMBOLS	RL201	RL202	RL203	RL204	RL205	RL206	RL207	UNITS
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current at TA=75°C	I(AV)	2.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	70							Amps
Maximum instantaneous forward voltage at 2.0 A	VF	1.1							Volts
Maximum full load reverse current, full cycle average 0.375" (9.5mm) lead length at TL=75°C	IR(AV)	30							uA
Maximum DC reverse current at rated DC blocking voltage	IR	5.0 50							uA
Typical junction capacitance ( NOTE )	CJ	20							pF
Typical thermal resistance	R θJA	40							°C / W
Operating junction and storage temperature range	TJ,TSTG	-65 to +175							°C

NOTES : Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

# RATINGS AND CHARACTERISTIC CURVES RL201 THRU RL207

FIG.1 - FORWARD CURRENT DERATING CURVE

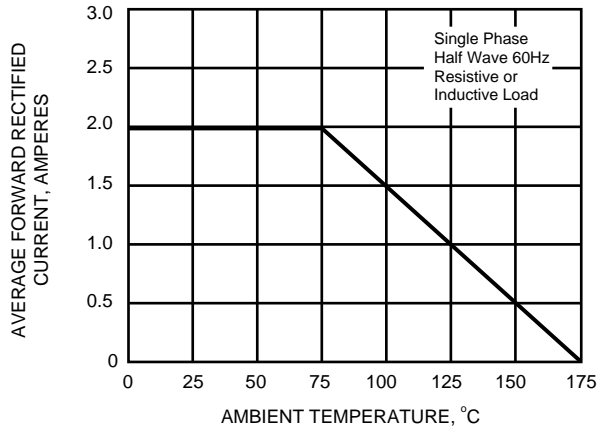


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

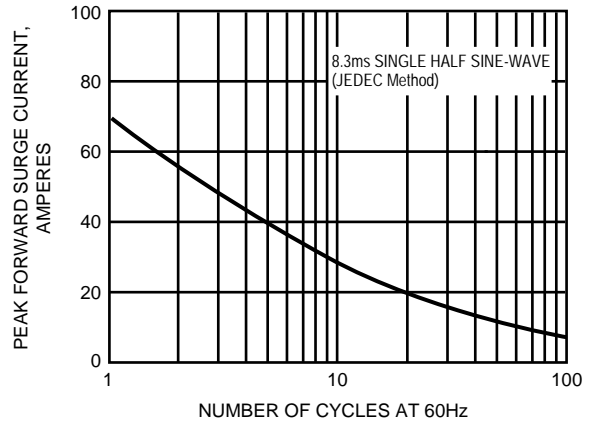


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

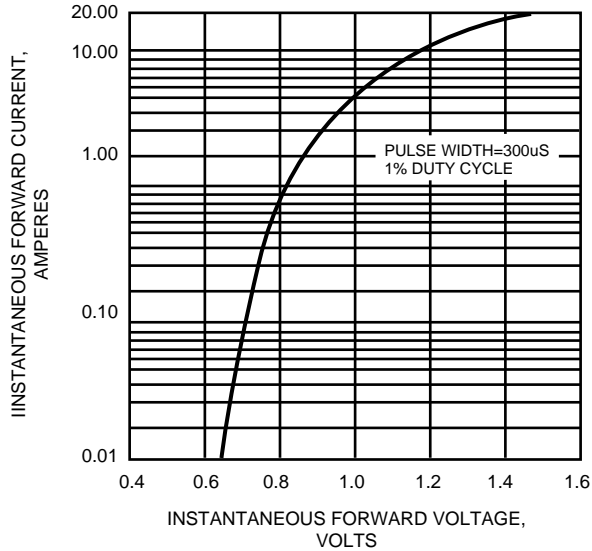


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

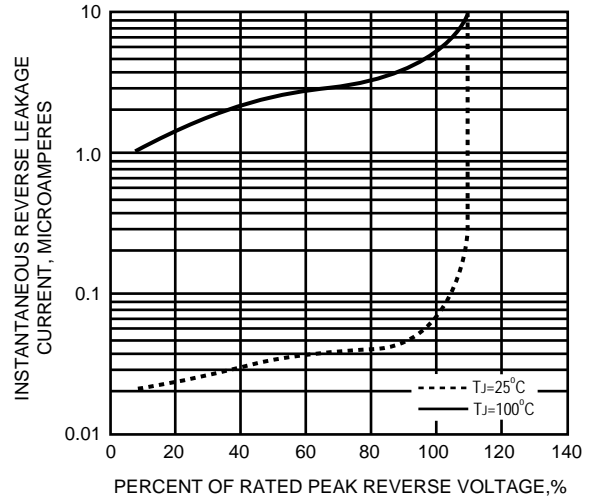


FIG.5 - TYPICAL JUNCTION CAPACITANCE

