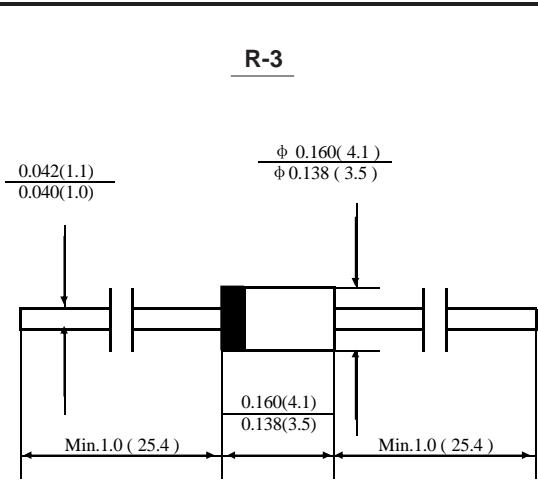




RL251 THRU RL257

GENERAL PURPOSE SILICON RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current -2.5 Amperes



Dimensions in inches and (millimeters)

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds, 0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC R-3 molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.012 ounce, 0.58 grams

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 current derate by 20%.

MDD Catalog Number	SYMBOLS	RL 251	RL 252	RL 253	RL 254	RL 255	RL 256	RL 257	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 TA=75°C	I _(AV)								Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}								Amps
Maximum instantaneous forward voltage at 2.5A	V _F								Volts
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=100°C	I _R								µA
Typical junction capacitance (NOTE 1)	C _J								pF
Typical thermal resistance (NOTE 2)	R _{θJA}								°C/W
Operating junction and storage temperature range	T _{J,T_{STG}}						-50 to +150		°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance from junction to ambient at 0.375"(9.5mm)lead length, P.C.B. mounted

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RATINGS AND CHARACTERISTIC CURVES RL251 THRU RL257

FIG. 1 -- TYPICAL FORWARD CHARACTERISTIC

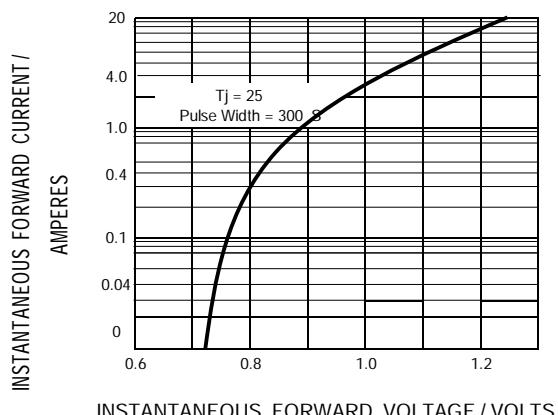


FIG. 2 -- PEAK FORWARD SURGE CURRENT

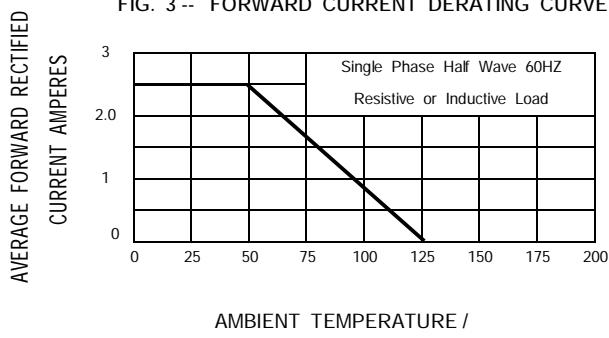
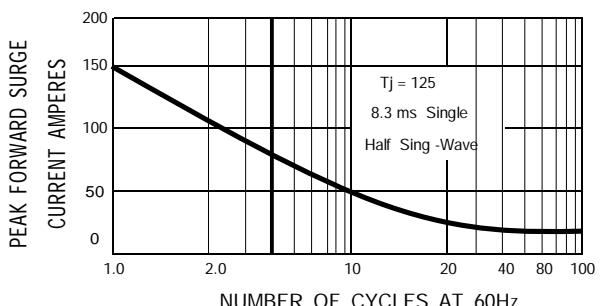


Fig.5-TYPICAL REVERSE CHARACTERISTICS

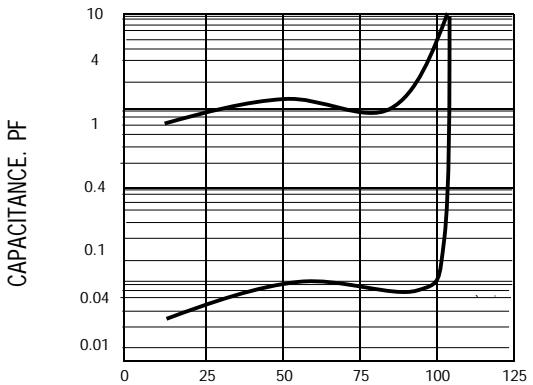
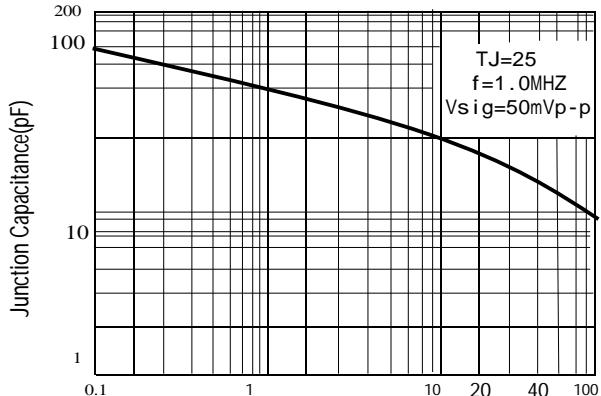


Fig.4-Typical Junction Capacitance



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