

RL251 thru RL257

PLASTIC SILICON RECTIFIER



**CHENG-YI
ELECTRONIC**



FEATURE

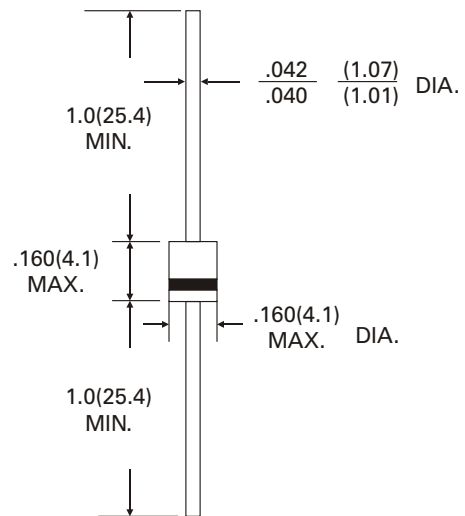
- Low forward voltage
- High current capability
- Low leakage current
- High surge capability
- Low cost

MECHANICAL DATA

- Case: Mold plastic use UL 94V-0 recognized flame retardant epoxy
- Terminals: Axial leads, solderable per MIL-STD-202, method 208
- Polarity: Color band denotes cathode
- Mounting Position: Any

VOLTAGE RANGE 50 TO 1000 Volts
CURRENT 2.5 Amperes

MIN 3A



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%.

	RL251	RL252	RL253	RL254	RL255	RL256	RL257	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current, .375", (9.5mm) Lead Length at T _A = 60°C	2.5							A
Peak Forward Surge Current 8.3 ms single half sine-wave	150							A
Maximum Forward Voltage at 6.0A Peak	1.2							V
Maximum Reverse Current, T _A = 25°C at Rated DC Blocking Voltage	5.0							μ
Maximum Full Load Reverse Current, Full Cycle Average, .5", (12.5mm) Lead Length T _A = 105°C	500							μ A
Typical Junction Capacitance (Note 1)	35							pF
Storage Temperature Range T _A	-65 to +175							°C
Operating Temperature Range T _A	-65 to +170							°C

Notes : 1. Measured at 1MHz and applied reverse voltage of 4.0 Volts
* JEDEC Registered Value.

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RATING AND CHARACTERISTICS CURVES RL251 THRU RL257

Fig. 1 - TYPICAL FORWARD CHARACTERISTICS

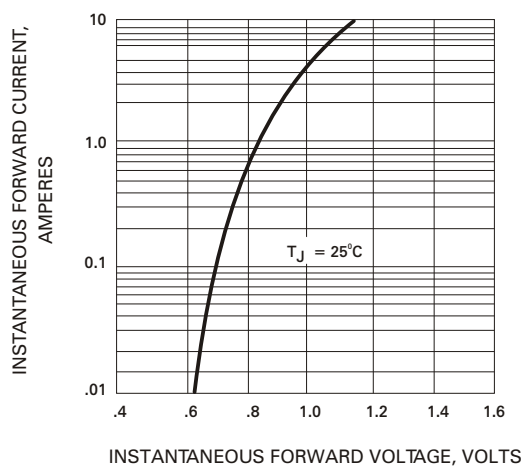


Fig. 2 - PEAK FORWARD SURGE CURRENT

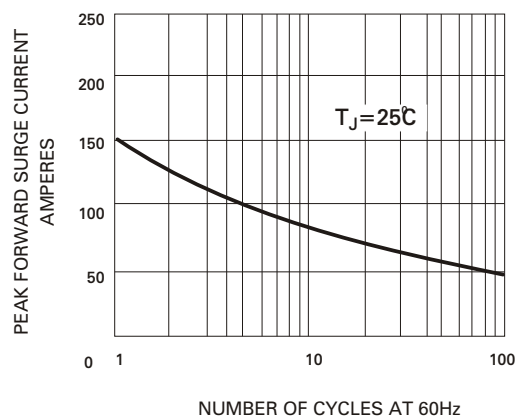


Fig. 3 - FORWARD CURRENT DERATING CURVE

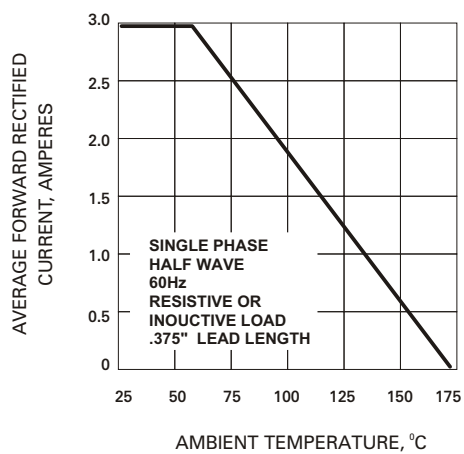


Fig. 4 - TYPICAL JUNCTION CAPACITANCE

