



HITANO ENTERPRISE CORP.

RL251 THRU RL257

TECHNICAL SPECIFICATIONS OF SILICON RECTIFIER

VOLTAGE RANGE – 50 to 1000 Volts

CURRENT – 2.5 Amperes

FEATURES

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

MECHANICAL DATA

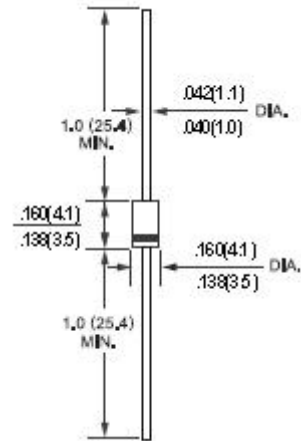
- *Case: Molded plastic
- *Epoxy: UL 94V -0 rate flame retardant
- *Lead: MiL-STD-202E, Method 208 guaranteed.
- *Polarity: Color band denotes cathode end
- *Mounting position: Any
- *Weight: 0.54gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%



Dimensions in inches and (millimeters)

	SYMBOL	RL251	RL252	RL253	RL254	RL255	RL256	RL257	UNITS
Maximum Recurrent 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 at $T_A = 75^\circ C$	I_O	2.5							Amps
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	150							Amps
Maximum Instantaneous Forward Voltage at 2.5ADC	V_F	1.0							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ $T_A = 25^\circ C$	5.0							μ Amps
	@ $T_A = 100^\circ C$	50							
Maximum Full Load Reverse Current Average, Full Cycle .375*(9.5mm) lead length at $T_L = 75^\circ C$		30							μ Amps
Typical Junction Capacitance (Note)	C_J	35							pF
Typical Thermal Resistance	$R_{\theta JA}$	35							$^\circ C/W$

NOTES: 1. Measured at 1 MHZ and applied reverse voltage of 4.0 volts