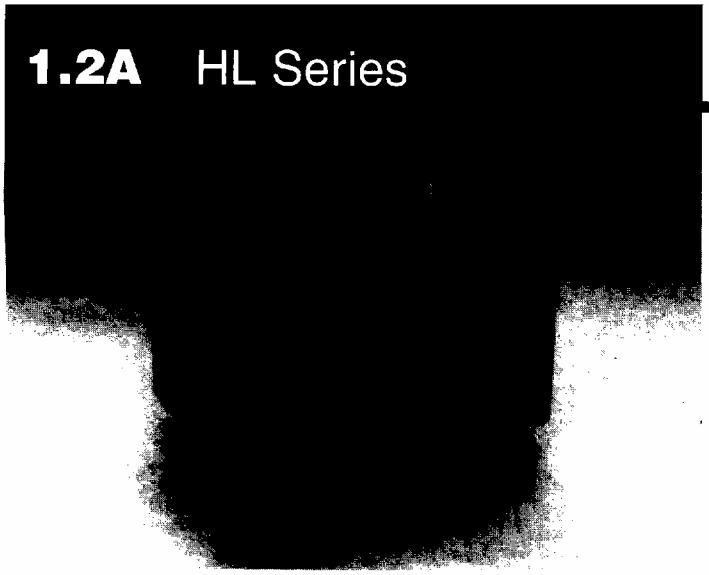
1.2A HL Series

Shindengen America, Inc.



FEATURES

- High Reliability
- Built in Inductor
- Small Packaging
- Standard Output Voltage Adjustment
  (With External Potentiometer)
- Custom Control Chip Yields Compact Size with Low Cost
- No Heat Sink Required

SPECIFICATIONS

INPUT

Voltage Range	See Model Selection Table
Max. Input Current	See Model Selection Table

OUTPUT

Output Voltage	See Model Selection Table
Set Point	±2%
Regulation	
Total	±5%
Noise & Ripple, (peak-to-peak)	
5V Output	25 mV max.
12V Output	25 mV max.
Output Current	See Model Selection Table
Short-Circuit Protection	Foldback with automatic reset
Efficiency	75 - 91% (typ.)
Remote ON / OFF Control	Available
Instantaneous Output Current	1.4A

ENVIRONMENTAL

Operating Ambient Temp.	−10 to +70°C (See Derating Chart)
Storage Temp.	−30 to +85°C
Cooling Conditions	No external heat sink required

FUNCTIONS

Overload Protection	Current limit (automatic reset)
Thermal Protection	Standard
Remote ON/OFF	Standard

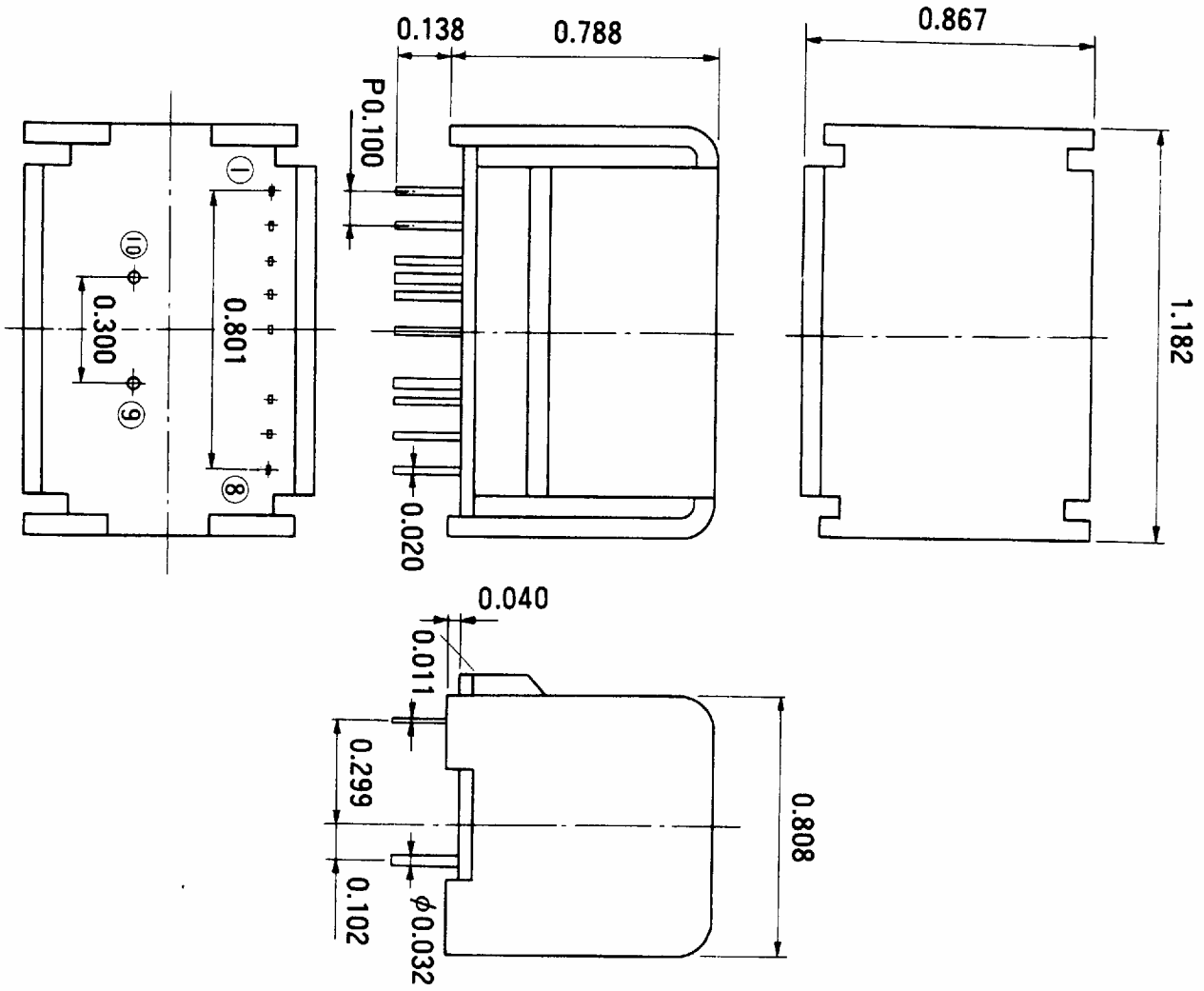
MODEL SPECIFICATIONS

Output			Model and Input Range	
Volts	Range*	Amps	8-32 VDC	17-32 VDC
+5	3 to 11	1.2/2A Peak	HLD051R2M	—
+12	8 to 24	1.2/2A Peak	—	HLE121R2M
-5	−2 to −8	1.0	HLND05001M	—
-12	−8 to −20	0.7	HLND120R7M	—

* With external potentiometer

MECHANICAL SPECIFICATIONS

Size (W x D x H) 0.79 x 1.18 x 0.87 inches (20 x 30 x 22 mm)
Weight 0.3 oz (8.5 g)

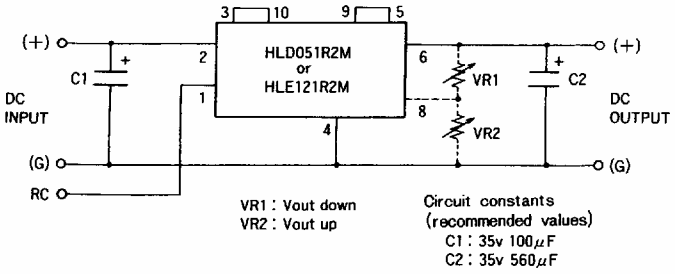


TERMINAL FUNCTION

No.	Function
1	Remote control
2	(+) Input
3	Relay
4	Ground
5	Relay or Drooping setting
6	(+) Output
7	Drooping setting* (see note)
8	Output voltage adjustment
9	Coil
10	Coil

*Note: Do not connect when operating normally

STANDARD EXTERNAL CONNECTION DIAGRAM



VR1 : Vout down
VR2 : Vout up

Circuit constants
(recommended values)
C1 : 35v 100μF
C2 : 35v 560μF

Note 1 : The following terminals must be connected together : 3 and 10
5 and 9

Note 2 : When not using the remote control, please connect the RC terminal to the ground side for operation.

Dimensions in inches; ( ) Dimensions in mm.