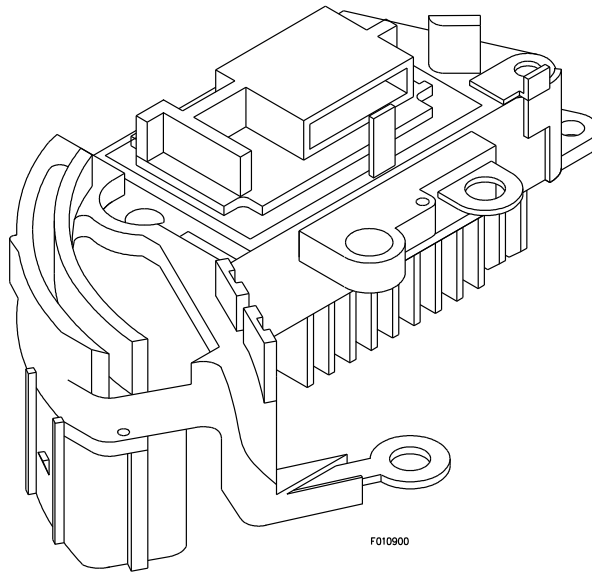


PRODUCT DATA SHEET
IN439**Figure 1**

REVISIONS				
REV	ECO #	DESCRIPTION	DATE	APPVD
0	N/A	Initial Release	1/9/03	NTR
A		Updated Summary Information/Added LRC. (ECD 5/22/06)	5/22/06	NTR

	ORIGINATOR	MECHANICAL ENGINEER	ELECTRICAL ENGINEER	MARKETING	APPROVED ENGINEERING
NAME	JMC	AHN	GEM	HJ	GEM
DATE	12/11/02	12/19/02	1/9/03	1/9/03	1/9/03

NIPPONDENSO REPLACEMENT REGULATOR

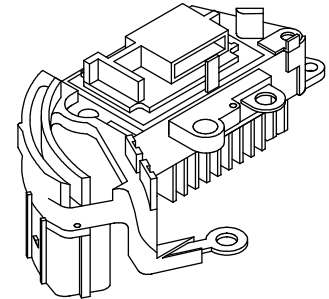
The IN439 functions to keep the battery at full charge, by maintaining the proper output of the alternator under changing load conditions and varying speeds.

KEY FEATURES

- “A” circuit, Low side drive regulator.
- Voltage Setpoint is 14.60 Volts.
- Ignition activated.
- Soft-start.
- Undervoltage and Overvoltage light.
- 5 Second LRC.

IN439

TRANSPO REGULATOR



1.0 MECHANICAL CHARACTERISTICS

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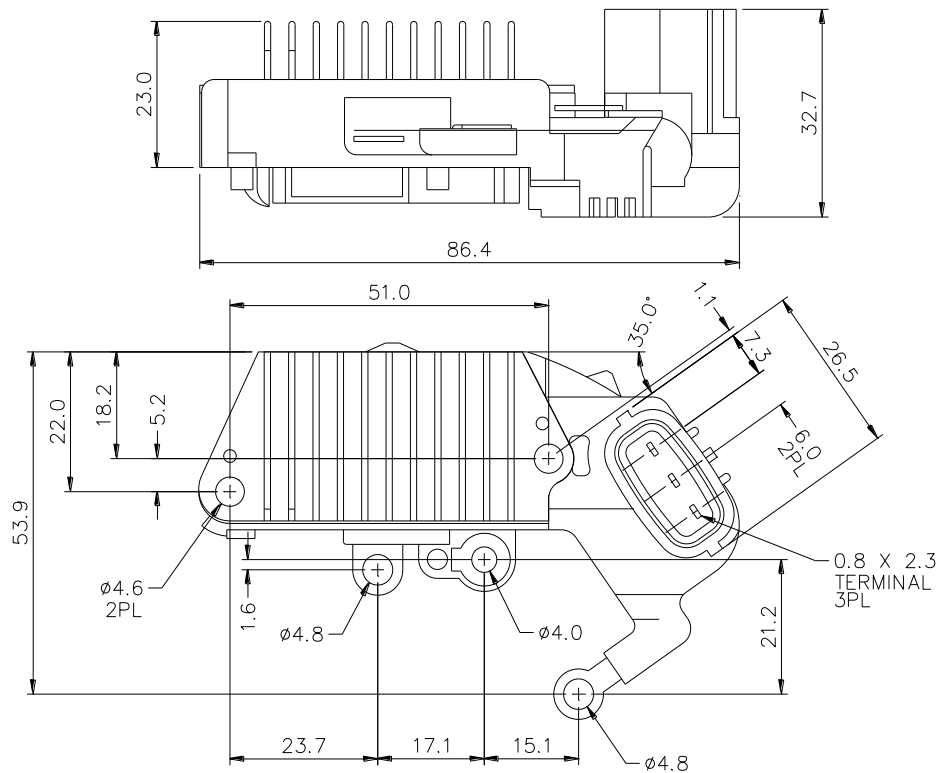
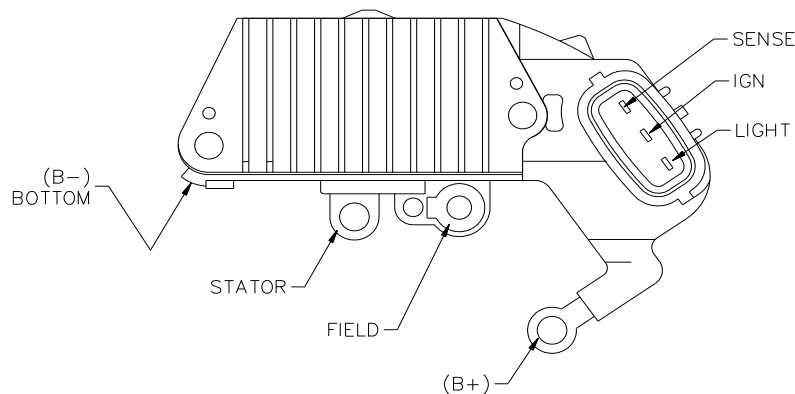


Figure 2

DIMENSION ARE FOR REFERENCE ONLY.

2.0 Pinouts



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Figure 2

3.0 Summary

PARAMETERS AND CONDITIONS	MIN.	MAX.	UNITS
StandBy Drain @ 12.6v	.	3	Ma
StandBy Verification @ 12.6v	N/A	5	V
Soft Start Frequency @ 12.6v	87	113	Hz
Soft Start Duty Cycle @ 12.6v	27	33	%
Light Activation @ 12.6v	30	50	ma
Lamp off Current 40hz @ 12.6v	0	17	ma
Low Speed Response @ 12.6v	15	30	%/sec
Vsat @ 12.6v	0.1	1.6	V
Primary Set Point	14.4	14.8	V
Secondary Set Point	14.4	14.8	V
OverVoltage @ S	15.5	16.9	V
UnderVoltage Light	9.5	10.7	V
Field Diode @ 12.6v	N/A	1.34	V

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