

PRODUCT DATA SHEET

IB235

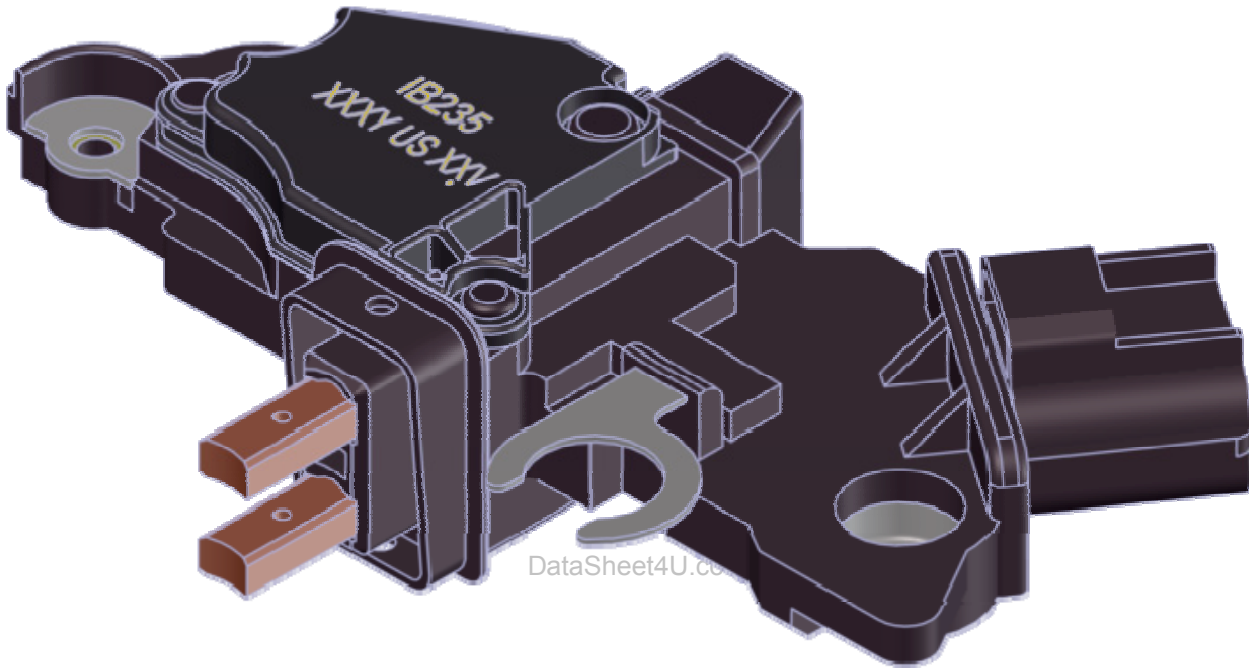


Figure 1:F025890

REVISIONS				
REV	ECO #	DESCRIPTION	DATE	APPVD
0	N/A	Initial Release (JRB & ECD 11/09/2005)	NTR	12/1/05
A	ESR4811	Updated graphics to reflect model changes(JRB 2/17/06)	02/22/06	NTR

	ORIGINATOR	MECHANICAL ENGINEER	ELECTRICAL ENGINEER	MARKETING	APPROVED ENGINEERING
NAME	JRB	AHN	MDE	MC	S PROMEN
DATE	7/1/2005	11/11/05	11/29/05	11/29/05	11/15/05

BOSCH REPLACEMENT REGULATOR

The IB235 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 14.50 Volts.
- 10 Second LRC
- Duty Cycle Modulation
- Factory-installed Brush Holder Assembly

1.0 MECHANICAL CHARACTERISTICS

IB235

TRANSPO REGULATOR

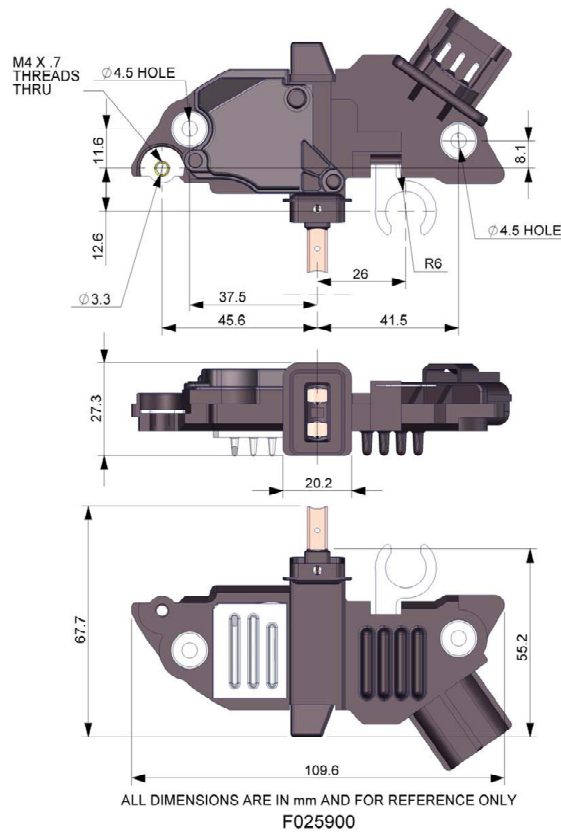
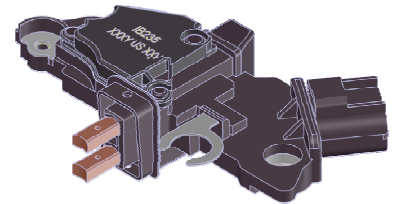


Figure 2

	ORIGINATOR	MECHANICAL ENGINEER	ELECTRICAL ENGINEER	MARKETING	APPROVED ENGINEERING
NAME	JRB	AHN	MDE	MC	S PROMEN
DATE	7/1/2005	11/11/05	11/29/05	11/29/05	11/15/05

2.0 Pinouts

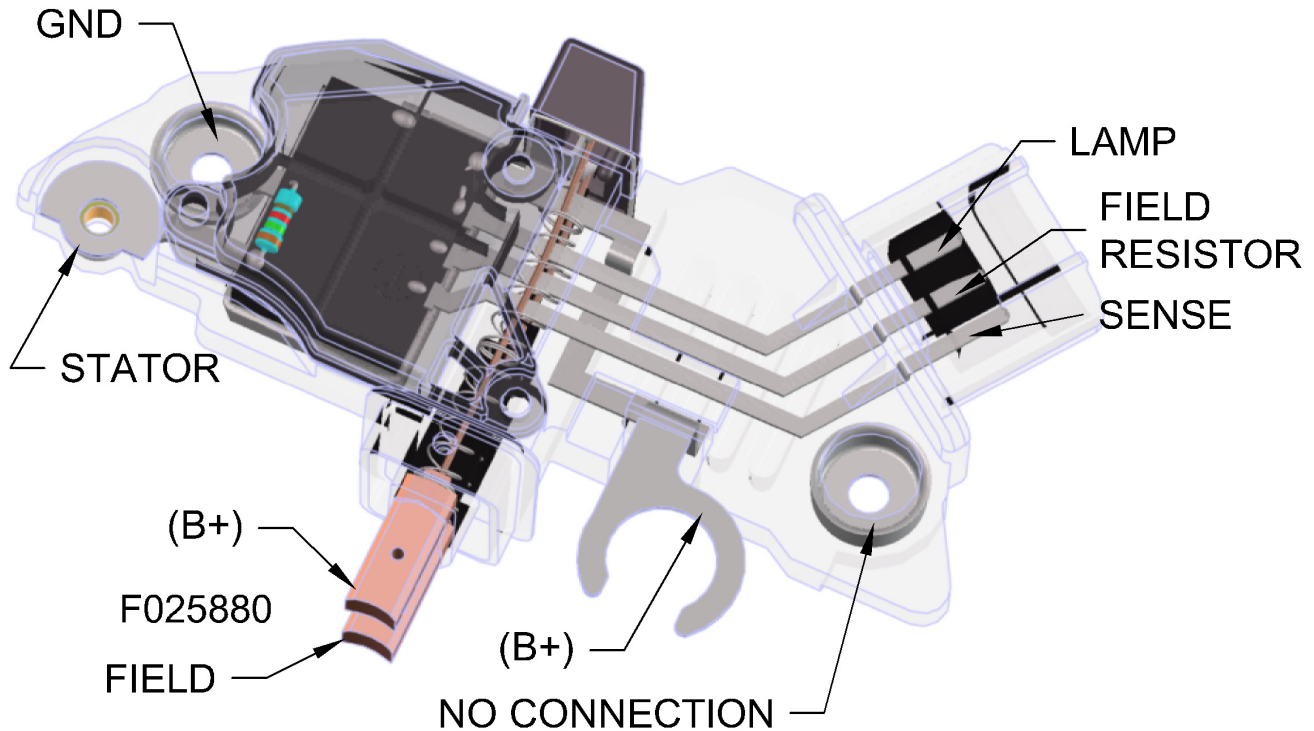


Figure 3

3.0 Summary

PARAMETERS AND CONDITIONS	SYMBOLS	MIN.	TYP.	MAX.	UNITS
Operating Temperature Range	T_{OP}	-40		125	$^{\circ}C$
Field	I_F		5		A
Default Voltage Set Point (4000 RPM with no load)	V_{SET}	14.3	14.50	14.70	V
Secondary Set Point (4000 RPM with no load)	V_{SET}	14.30	14.50	14.70	V
Regulation vs. Speed (1500 to 4500 RPM with no load)	V_{SPD}		.05		V
Regulation vs. Load (6000 RPM with no load to 90% full load)	V_{LOAD}		0.2		V
Saturation Voltage @ 5A, 12Volts	V_{SAT}		.18		V
Standby Current Drain (Key off, $V_{BAT} = 12V$)	I_D		.7		mA
Temperature Coefficient	T.C.		-10		mV/ $^{\circ}C$

Transpo Electronics Inc. Engineering Group 2006

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