

**PRODUCT DATA SHEET**

**M580**

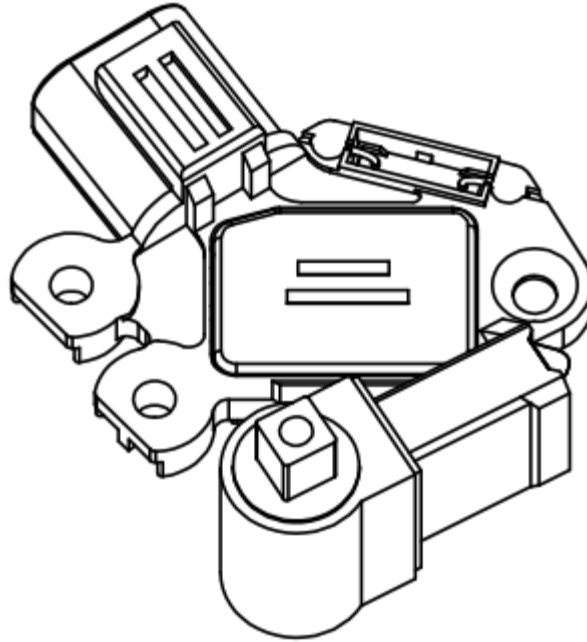


Figure 1

REVISIONS				
REV	ECO #	DESCRIPTION	DATE	APPVD
0		Initial Release	2015/6/23	JZ

	ORIGINATOR	MECHANICAL ENGINEER	ELECTRICAL ENGINEER	MARKETING	APPROVED ENGINEERING
NAME			Joe		
DATE			2015-06-23		

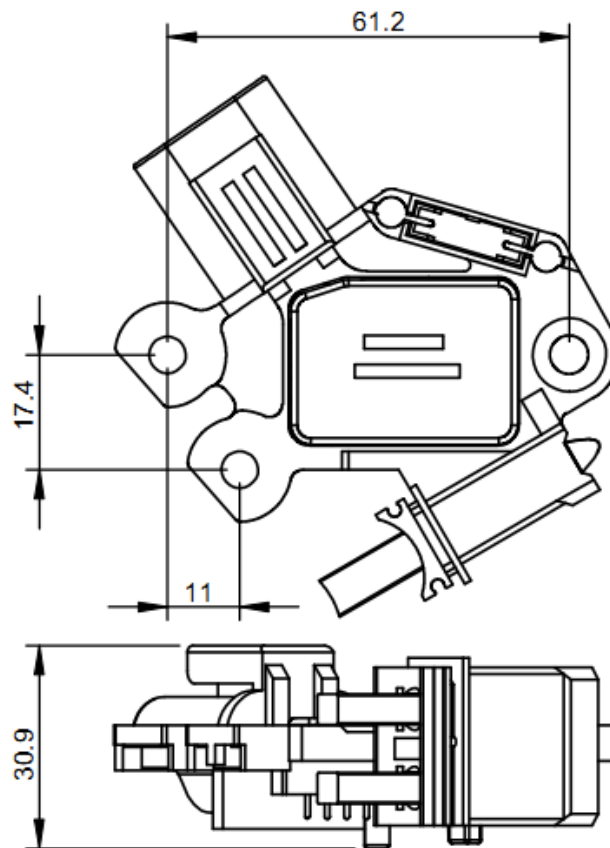
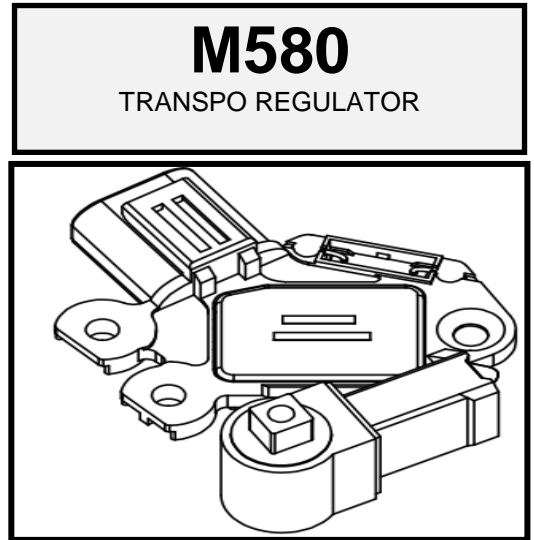
## VALEO REPLACEMENT REGULATOR

The M581 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

- "B" circuit, High side drive regulator.
- Voltage Setpoint is 14.45 Volts.
- Field rating is 5 Amps.
- Stator Activated.
- OE Compliant Soft Start
- 5 Seconds LRC
- Under Voltage Lamp

### 1.0 MECHANICAL CHARACTERISTICS



All dimensions are in mm and for reference only  
Figure 2



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## 2.0 Pinouts

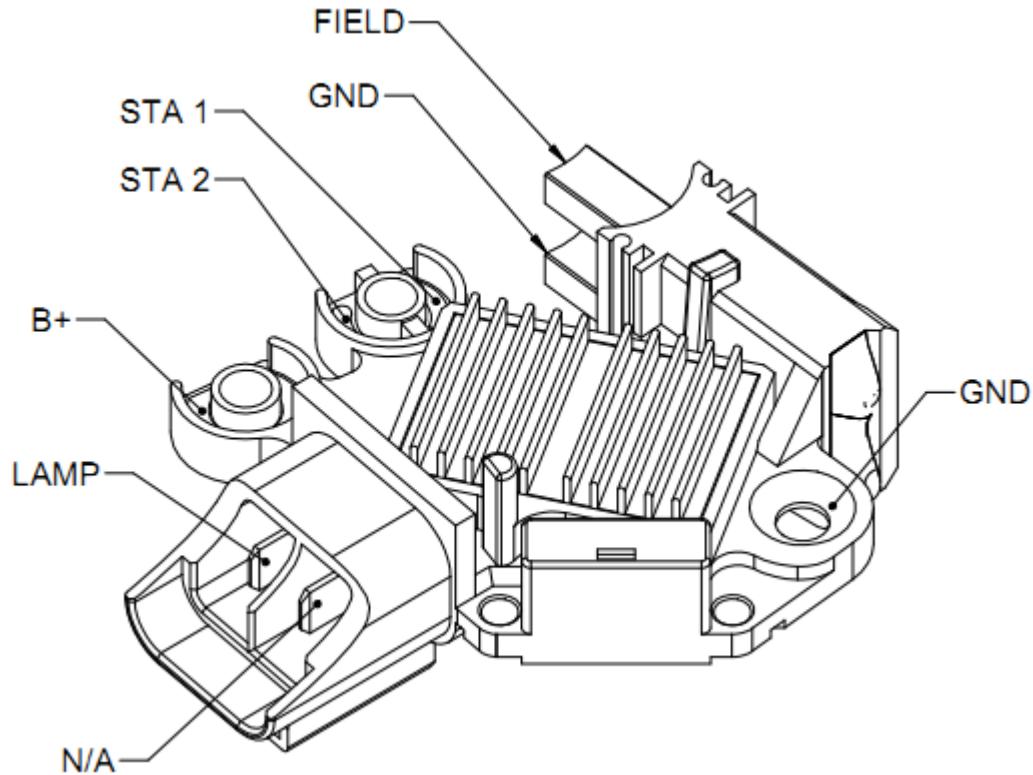


Figure 3

## 3.0 Summary

PARAMETERS AND CONDITIONS	SYMBOLS	MIN.	TYP.	MAX.	UNITS
Operating Temperature Range	$T_{OP}$	-40	---	125	°C
Field	$I_F$	---	5	---	A
Standby Drain Current	$I_D$	---	1	3	mA
Voltage Set Point (4000 RPM with no load)	$V_{SET}$	14.25	14.45	14.65	V
Regulation vs. Speed (5000 to 2000 RPM with no load)	$V_{SPD}$	---	-0.05	-0.1	V
Regulation vs. Load (6000 RPM with no load to 90% full load)	$V_{LOAD}$	---	-0.1	-0.3	V
Saturation Voltage @ 5A	$V_{SAT}$	---	0.50	---	V
Temperature Coefficient	T.C.	---	-4	---	mV/°C



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