NAME



PARAMETERS AND CONDITIONS	SYMBOLS	MIN.	TYP.	MAX.	UNITS
Operating Temperature Range	T _{OP}	-30		125	°C
Field	I _F		5		Α
Voltage Set Point (2500 RPM, at 20A load)	V _{SET}	14.3	14.5	14.7	V
Secondary Set Point (2500 RPM ,at 20A load)	V _{SET2}	15.2	15.5	15.8	V
Speed Regulation (2000 RPM to 6000 RPM ,at load = 15A)	V _{SR}		-0.1	-0.3	V
Load Regulation (10% to 95%, at Speed = 6000 RPM)	V _{LR}		-0.4	-0.5	V
Saturation Voltage @ 5A, 12Volts	V _{SAT}		0.6	0.8	V
Standby Current (Key off, V _{BAT} = 12.6V)	I _{SB}			1.0	mA
Temperature Coefficient	T _C	-6	-3	0	mV/ °C
Over voltage Indication	V _{OV}	16.0	16.5	17.0	V
Under voltage Indication	V _{UV}	9.3	9.8	10.3	V
Soft-Start Duty	D _{SS}	15	30	45	%
LRC Delay Time	T _{LRC}	6.5	8.5	10.5	Sec
Cut-in Speed	R _{CIS}			1200	RPM

Safety Characteristics:

- > Over voltage : Vs = 24 V, 60 sec. from the ignition SW. is turned ON/OFF without failure.
- **Battery Reversal :** Vs = -14 V, 60 sec. from accidental battery reversal without failure.
- Short Circuit Protection : The regulator stands short circuit of Field without failure.
- Repetitive Thermal Shock :
 - The Regulator shall be designed to withstand 500 cycles of -30 $^{\circ}$ C to 125 $^{\circ}$ C in 20 minutes and 125 $^{\circ}$ C to -30 $^{\circ}$ C in 20 minutes.
- High Temperature Test :

The Regulator shall be designed to operate reliability at the rated current of alternator is 80% to100% and at 6000 rpm (shaft speed) for a minimum of 10 hours at 125 $^{\circ}$ C.

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