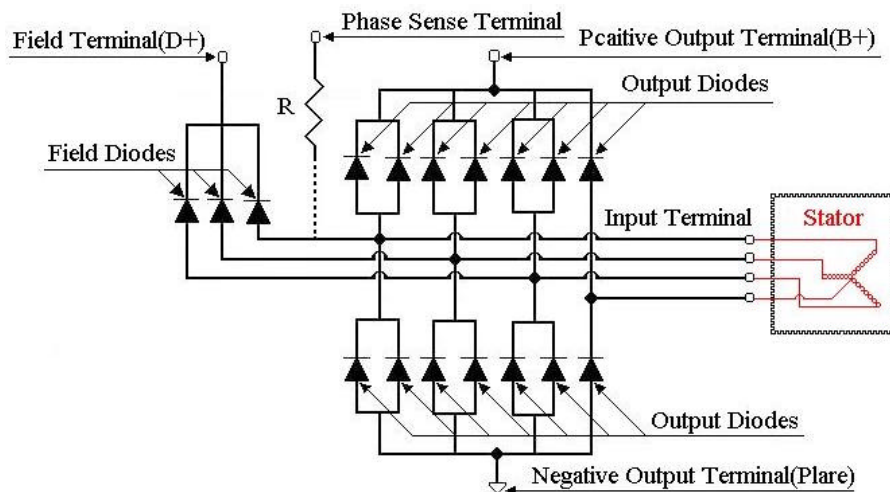


File Name	Rectifier Electrical Specification
-----------	---

Item # : **RB-78HA**

1.0 Circuit:



2.0 Electrical Characteristics :

2.1 Output Diodes : (Per Diode, Ta=25)

Peak Repetitive Reverse Voltage	V _{rm}	200V	
Average Rectified Forward Current*	I _o	35A	
Maximum Instantaneous Forward Voltage at I _o	V _f	1.2V MAX	
Maximum Reverse Current at V _{rm}	I _r	100 μ A MAX	

*Depends on cooling conditions

2.2 Field Diodes : (Per Diode, Ta=25)

Peak Repetitive Reverse Voltage	V _{rm}	200V	
Average Rectified Forward Current at Ta=105	I _o	35A	
Maximum Instantaneous Forward Voltage at I _o	V _f	1.2V MAX	
Maximum Reverse Current at V _{rm}	I _r	100 μ A MAX	

2.3 Others :

Component	Rating	Unit	Tolerance	Rated Voltage	Remark
Condenser	-----	μ F	±10%	-----	

2003 03.04		1	張明賢					
DATE OF FIRST EDITION	DATE OF REVISED EDITION	EDITION	MANU-SCRIPT	ORIGINAL REVIEW	SECOND REVIEW	APPROVAL	ISSUED MARK	COPY'S NUMBER

RB-78HA

Mobiletron Electronics

File Name	Rectifier Electrical Specification							
-----------	---	--	--	--	--	--	--	--

Resistor	3.3KA.	Ω	$\pm 5\%$	1/4W	
----------	---------------	----------	-----------	------	--

3.0 Temperature Range :

3.1 Storage Temperature :

The Rectifier shall withstand in definite storage temperature from -40 to 150 without failure or performance degradation at operating temperatures.

3.2 Operating Temperature :

The Rectifier shall operate reliably to all specifications and within all tolerances at temperatures from -30 to 125 .

4.0 Reliability Test :

4.1 Repetitive Thermal Shock :

The Rectifier shall be designed to withstand 500 cycles of -20 to 150 in 20 minutes and 150 to -20 in 20 minutes.

4.2 The High Temp. Test :

The Rectifier shall be designed to operate reliability at the rated current of alternator is 80% to 100% and at 6000 rpm (shaft speed) for a minimum of 10 hours at 125 .

4.3 Load Dump :

The Rectifier shall withstand a voltage peak and noise from load dump transients without failure.

Test condition : ON/OFF switch per 10 seconds while the rated current of alternator is 80% to 100% at 6000 rpm and test 200 times.

5.0 Mechanical Shock :

5.1 Drop Shock :

The Rectifier shall withstand a free fall from one meter onto a cement floor on each of the 3 main axes (x,y,z) two times without failure or performance degradation.

5.2 Vibration Shock :

The Rectifier shall withstand a vibration according to the following condition without failure or performance degradation.

Condition : amplitude acceleration = 15G , vibration frequency = 10~500Hz , a period of 15 minutes for each of the 3 main axes (x,y,z) , test times = 16 cycle.

6.0 Salt Spray :

The Rectifier shall withstand 8 hours immersion in the solution = 5% of salt water at 35 without failure or performance degradation .

2003 03.04		1	張明賢					
DATE OF FIRST EDITION	DATE OF REVISED EDITION	EDITION	MANU- SCRIPT	ORIGINAL REVIEW	SECOND REVIEW	APPROVAL	ISSUED MARK	COPY'S NUMBER

RB-78HA

Mobiletron Electronics