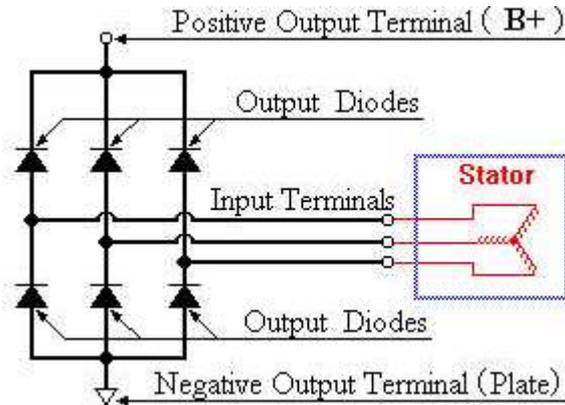


File Name	Rectifier Electrical Specification
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Item # : **RT-08H**

1.0 Circuit:



2.0 Electrical Characteristics :

2.1 Output Diodes : (Per Diode, $T_a=25$)

Characteristic	Symbol	Rating	Unit	Remark
Peak Repetitive Reverse Voltage	V_{rm}	200	V	
Average Rectified Forward Current*	I_o	35	A	
Maximum Instantaneous Forward Voltage at I_o	V_f	1.2	V	
Maximum Reverse Current at V_{rm}	I_r	100	μA	

*Depends on cooling conditions

2.2 Field Diodes : (Per Diode, $T_a=25$)

Characteristic	Symbol	Rating	Unit	Remark
Peak Repetitive Reverse Voltage	V_{rm}	---	V	
Average Rectified Forward Current at $T_a=105$	I_o	---	A	
Maximum Instantaneous Forward Voltage at I_o	V_f	---	V	
Maximum Reverse Current at V_{rm}	I_r	---	μA	

2.3 Others :

Component	Rating	Unit	Tolerance	Rated Voltage	Remark
Condenser	N.A.	μF	$\pm 10\%$	100 V	
Resistor	N.A.		$\pm 5\%$	-----	

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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 -30 to 150 in 20 minutes and 150 to -30 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 .

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