

NAME	RM-252 Electrical Specification	NO	RX-1-1-1187
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Picture 	Diagram
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PARAMETERS AND CONDITIONS		SYMBOLS	MIN.	TYP.	MAX.	UNITS
Storage Temperature Range		Tsto	-40	...	150	°C
Operating Temperature Range		Tope	-30	...	125	°C
Output Diodes	Avalanche Voltage Range (Diodes $\Delta V_z \leq 2V$)	Vrm	19	...	24	V
	Average Rectified Forward Current	Io	35	...	...	A
	Maximum Instantaneous Forward Voltage @ If = 80A , T = 25°C	Vf	...	...	1.2	V
	Maximum Reverse Current @ Vrm = 16V	Ir	...	...	1.0	μA
Diodes Trio	Peak Repetitive Reverse Voltage	Vrm	...	...	...	V
	Average Rectified Forward Current	Io	...	...	...	A
	Maximum Instantaneous Forward Voltage @ If = 2.5 , T = 25°C	Vf	...	...	...	V
	Maximum Reverse Current at Vrm	Ir	...	...	...	μA

Component	Rating	Tolerance	Remark	Unit
Condenser	N.A.	±10%	...	μF
Resistor	N.A.	±5%	...	Ω

Reliability Test	Repetitive Thermal Shock	The Rectifier shall be designed to withstand 500 cycles of -30°C to 125°C in 20minutes and 125°C to -30°C in 20 minutes.
	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°C .
	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 .
Mechanical Shock	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 .
	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 .
	Salt Spray	The Rectifier shall withstand 8 hours immersion in the solution = 5% of salt water at 35°C without failure or performance degradation .

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