



PFC Device Corp.,

### **High Reliability Test Condition**

No.	Test Items	Test Condition	Conditional Approval	Final Approval
1	Solderability	Temp = $245 \pm 5^{\circ}\text{C}$	5 sec	5 sec
2	Soldering Heat	Temp= $260 \pm 5^{\circ}\text{C}$	10 sec	10 sec
3	Temperature Cycling	$-55^{\circ}\text{C} +0, -3 / 15 \text{ min}$ $150^{\circ}\text{C} +3, -0 / 15 \text{ min}$ $25^{\circ}\text{C} / 5 \text{ min for transfer}$	30 Cycles	1000 Cycles
4	Humidity	Temp = $85 \pm 3^{\circ}\text{C}$ Relative Humidity = $85 \pm 3\%$	168 hrs	1000 hrs
5	Pressure Cooker	Temp= $121 \pm 3^{\circ}\text{C}$ Pressure=15 PSIG	96 hrs	96 hrs
6	High Temp. Storage Life	$175 \pm 3^{\circ}\text{C}$	168 hrs	1000 hrs
7	Low Temp. Storage Life	Temp = $-55 \pm 3^{\circ}\text{C}$	168 hrs	1000 hrs
8	High Temp. Reverse Bias	80% Rated Voltage $T_j$ as data sheet definitaiton	168 hrs	1000 hrs
9	Forward Surge	8.3ms Single Half Sine Wave Superimposed on Rated Load or $T_j=25^{\circ}\text{C}$	1 Pulse	1 Pulse
10	Operating Life	Temp= Room Temp, Rated forward current or $T_j$ (Max)	168 hrs	1000 hrs
11	Power Cycle	TURN ON : 5 min TURN OFF : 5 min	500 Cycles	1000 Cycles