

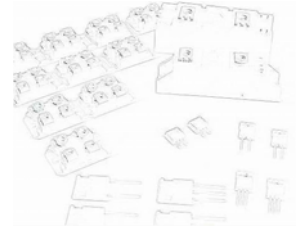
Reliability Experiment Summary

SBD, MBR10B150CTH (10A, 150V, TO-220AB, Halogen-Free)

June 2012

Date Code: LS1219

NO	TEST ITEM	TEST CONDITION	DURATION	FAILURE RATE	PARAMETER	AVG	STD	MAX	MIN	
1	OPERATING LIFE	IF = 5A @ Ta = 25°C	72 HOURS	0 / 22	INITIAL	V _F (V)	0.79249	1.8026	0.7974	0.7898
						V _B (V)	194.11	1.9210	199.12	189.25
						I _R (μA)	0.7709	0.7030	1.7400	0.0000
					FINAL	V _F (V)	0.79277	1.5936	0.7972	0.7908
						V _B (V)	194.21	2.3239	199.94	187.72
						I _R (μA)	1.6777	0.3484	2.3500	1.3600
2	HIGH TEMPERATURE REVERSE BIAS	V _B = 120V @ Ta = 125°C	72 HOURS	0 / 22	INITIAL	V _F (V)	0.79257	2.3308	0.8007	0.7898
						V _B (V)	194.28	2.5367	200.10	190.15
						I _R (μA)	1.7541	0.3504	2.3800	1.3600
					FINAL	V _F (V)	0.79272	1.2324	0.79610	0.79100
						V _B (V)	194.12	2.6327	199.88	188.57
						I _R (μA)	0.7673	0.9818	2.4100	0.0000
3	PRESSURE COOKER	Ta = 121°C P = 15PSIG	8 HOURS	0 / 22	INITIAL	V _F (V)	0.7928	1.3746	0.7960	0.7913
						V _B (V)	195.77	1.7236	199.48	193.42
						I _R (μA)	1.5177	0.4129	2.3200	0.3800
					FINAL	V _F (V)	0.79314	1.4621	0.7967	0.7910
						V _B (V)	195.87	1.7451	198.89	193.31
						I _R (μA)	1.0750	0.7895	2.1600	0.0000



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4	FORWARD SURGE	8.3ms HALF-SINE SUPERIMPOSED, Duration = 1 SHOT	IFSM=120 A	0 / 22	INITIAL	V _F (V)	0.79269	1.3206	0.7954	0.7896
						V _B (V)	195.54	1.4599	198.27	192.33
						I _R (μA)	2.0027	0.6359	4.0600	0.8100
					FINAL	V _F (V)	0.79294	1.4016	0.7951	0.7895
						V _B (V)	195.59	1.5422	198.45	192.22
						I _R (μA)	1.3641	1.0491	3.7400	0.0000
5	TEMPERATURE CYCLING	AIR TO AIR 100 °C / 30MIN -10 °C / 30MIN	8 CYCLES	0 / 22	INITIAL	V _F (V)	0.79295	1.3679	0.7963	0.7915
						V _B (V)	195.71	1.7581	199.72	192.38
						I _R (μA)	1.8850	0.5597	2.9300	0.3500
					FINAL	V _F (V)	0.79317	1.2907	0.7961	0.7913
						V _B (V)	195.7	1.8101	200.27	192.76
						I _R (μA)	0.6664	0.7922	2.3500	0.0000

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