

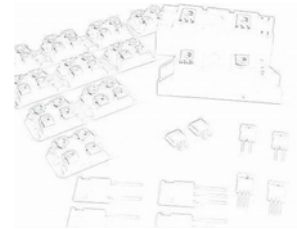


Reliability Experiment Summary SBD, SB3100E (3A, 100V, DO-27)

January 2012

Date Code: 2A

NO	TEST ITEM	TEST CONDITION	DURATION	FAILURE RATE	PARAMETER	AVG	STD	MAX	MIN	
1	OPERATING LIFE	IF = 3A @ Ta = 25°C	72 HOURS	0 / 22	INITIAL	V _F (V)	0.75036	1.3290	0.752	0.748
						V _B (V)	117.93	0.8002	118.9	115.4
						I _R (μA)	0.2955	0.1939	1.08	0.19
					FINAL	V _F (V)	0.75032	1.7563	0.754	0.748
						V _B (V)	117.98	0.8029	118.8	115.3
						I _R (μA)	0.362	0.3072	1.39	0.19
2	HIGH TEMPERATURE REVERSE BIAS	V _B = 80V @ Ta = 125°C	72 HOURS	0 / 22	INITIAL	V _F (V)	0.75082	1.2203	0.754	0.749
						V _B (V)	118.16	0.6765	119.3	116.6
						I _R (μA)	0.2736	0.1213	0.64	0.19
					FINAL	V _F (V)	0.74982	1.2587	0.752	0.748
						V _B (V)	117.78	2.0075	119.3	112.8
						I _R (μA)	0.3014	0.1933	0.98	0.19
3	PRESSURE COOKER	Ta = 121°C P = 15PSIG	8 HOURS	0 / 22	INITIAL	V _F (V)	0.75009	1.4771	0.752	0.748
						V _B (V)	117.99	1.3318	119.1	113.0
						I _R (μA)	0.28	0.0874	0.56	0.21
					FINAL	V _F (V)	0.74941	1.1816	0.752	0.748
						V _B (V)	117.9	1.3508	119.3	114.2
						I _R (μA)	0.2764	0.1270	0.62	0.19



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NO	TEST ITEM	TEST CONDITION	DURATION	FAILURE RATE	PARAMETER	AVG	STD	MAX	MIN	
4	FORWARD SURGE	8.3ms HALF-SINE SUPERIMPOSED, Duration = 1 SHOT	IFSM=80 A	0 / 22	INITIAL	V _F (V)	0.7494	1.6807	0.752	0.748
						V _B (V)	118.25	0.6285	119.0	115.8
						I _R (μA)	0.2309	0.078	0.56	0.19
					FINAL	V _F (V)	0.7499	1.4302	0.752	0.748
						V _B (V)	118.17	0.6417	119.4	116.9
						I _R (μA)	0.3545	0.2512	1.07	0.19
5	TEMPERATURE CYCLING	AIR TO AIR 100 °C / 30MIN -10 °C / 30MIN	8 CYCLES	0 / 22	INITIAL	V _F (V)	0.74941	1.6807	0.752	0.748
						V _B (V)	118.25	0.6285	119.0	115.8
						I _R (μA)	0.2309	0.078	0.56	0.19
					FINAL	V _F (V)	0.75023	1.6015	0.754	0.748
						V _B (V)	118.05	0.9738	119.0	114.2
						I _R (μA)	0.2736	0.1286	0.73	0.19

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