



**Bi CMOS DMOS METAL GATE**  
**OPERATING LIFE @ TA = +125C AT RATED VOLTAGE**  
**BCDM PROCESS**

Family	Device ID	Lot #	Package	Vcc	Sample Size	Act Hrs	Fails	Act Hrs	Fails	Act Hrs	Fails	Act Hrs	Fails	Total Dev. Hrs
LDO Voltage Regulators	MIC29151	3A18105M09	TO-263	+ 26V	116	168	0	500	0	1000	0			116000
	MIC29152	110535	TO-220	+ 26V	116	168	0	500	0	1000	0			116000
	MIC29152	111517	TO-263	+26V	116	168	0			1000	0			116000
	MIC2920	2A06111M03	SOT-223	+26V	110	168	0	500	0	1000	0			110000
	MIC29302	6A10125MEA	TO-263	+26V	77	230	0	500	0	1000	0			77000
	MIC29302	6A10125MEB	TO-263	+26V	77	230	0	500	0	1000	0			77000
	MIC2941A	3A29327M02	TO-263	+26V	116	168	0	500	0	1000	0			116000
	MIC29501	66927087-1	TO-263	+26V	116	168	0	500	0	1000	0			116000
	MIC29502	5A33901	TO-220	+26V	77			448	0	1000	0			77000
	MIC2951	4A16714	MSOP	+26V	46	168	0	500	0	1000	0			46000
	MIC2951	4A25881MEA	SOIC	+26V	116	168	0	500	0	1000	0			116000
	MIC2951	4A27012	MSOP	+26V	48	168	0	500	0	1000	0			48000
	MIC2951	66247986	SOIC	+26V	115	168	0	500	0	1000	0			115000
	MIC2951	4A27071MEA	SOIC	+26V	116	231	0	500	0	1000	0			116000
	MIC29512	526706	TO-220	+26V	116	168	0	500	0	1000	0			116000
	MIC37100	7A7913M12	SOT-223	6.0V	77	168	0							12936
	MIC37102	3A04090MEA	SPAK	6.0V	116	233	0	500	0	1000	0			116000
	MIC37138	6A31921M70	SOT-223	6.0V	77	168	0	500		1000	0	2000	0	154000
	MIC37139	6A22851M09	SOT-223	6.0V	77	168	0	500		1000	0	2000	0	154000
	MIC37139	2A06033M04	SOT-223	6.0V	77	168	0	500		1000	0			77000
MIC37301	2A13505	SPAK	6.0V	116	168	0	500	0	1000	0			116000	
MIC37302	5A21601M03	SPAK	6.0V	77	232	0	500		1000	0			77000	
MIC37302	4A45760MSB	SPAK	6.0V	116	181	0	500	0	1000	0			116000	
MIC37312	2A39349MNH	SPAK	6.0V	116	168	0	500	0	1000	0	2000	0	232000	
MIC39100	2A33316M06	SOT	+16V	81				500	0					40500
MIC39100	2A34534	SOT	+16V	88				500	0					44000
MIC39100	A202056M01	SOT	+16V	90						1000	0			90000
MIC49150	7A34245M03	SPAK	+6.5V	77	175	0				1000	0			77000

### BCDM PROCESS

Family	Device ID	Lot #	Package	Vcc	Sample	Act	Act		Act		Act		Total	
					Size	Hrs	Fails	Hrs	Fails	Hrs	Fails	Hrs	Fails	Dev. Hrs
	MIC49150	7A32017M04	SPAK	+6.5V	77	168	0			1000	0			77000
	MIC49150	7A20437M72	SPAK	+6.5V	77	168	0			1000	0			77000
	MIC49150	7A20437MEA	SPAK	+6.5V	77	168	0			1000	0			77000
	MIC49150	7A204438M81G	SPAK	+6.5V	77	168	0			1000	0			77000
	MIC5200	66522164-4	SOT-223	+ 26V	56	168	0	500	0	1000	0			56000
	MIC5200	66522164-5	SOT-223	+ 26V	57	168	0	500	0	1000	0			57000
Latched Drivers PWM	MIC59P50	66110740	P.DIP	+ 5V	105	168	0	500	0	1000	0			105000
	MIC38HC43	665222537	SOIC	+ 18V	116	168	0	500	0	1000	0			116000
	MIC38HC43	665223383-1	SOIC	+ 18V	116	200	0	500	0	1000	0			116000
	MIC38HC43	66522151-2	SOIC	+ 18V	115	168	0	500	0	1000	0			115000
	MIC38HC43	4A23595M03	SOIC	+ 18V	60	168	0	500	0					30000
	MIC38HC43	3A35058M01	SOIC	+ 18V	60	168	0	500	0					30000
	MIC38HC43	3A33897M01	SOIC	+ 18V	60	168	0	500	0					30000
	MIC38HC43	3A04053M03	SOIC	+ 18V	60	168	0	500	0					30000
<b>Totals</b>					<b>3776</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3777436</b>

**Average Failure Rate, 60% Confidence, Ta = 55C, Ea = 0.7eV**

**3.1 FIT (Failures in Time) or MTBF = 3.21 X 10E8 hours**