



BCC - BiCMOS COMPOSITE
OPERATING LIFE @ TA = +125C AT RATED VOLTAGE

Family	Device	Lot #	Package	Vcc	Sample Size	Act Hrs	Act Fails	Act Hrs	Act Fails	Act Hrs	Act Fails	Total Dev. Hrs	Comment
PWM	MIC38C42A	5123364	SOIC-8	+ 18V	116	168	0	500	0	2000	0	232000	
Controller	MIC38C43BM	5210998	SOIC-8	+ 18V	116	168	0	500	0	1000	0	116000	
Switcher	MIC4680 YM	4A20253MEC	SOIC-8	+ 34V	77	259	1	500	0	1000	0	76259	*
	MIC4680 YM	6A20594MEA	SOIC-8	+ 34V	77	168	0			1000	0	77000	
	MIC4680BM	110356MEASR4	SOIC-8	+ 34V	116	168	0	500	0	1000	0	116000	
	MIC4680BM	110356MEA	SOIC-8	+ 34V	116	322	0	500	0	1000	0	116000	
	MIC4680BM	3A25116	SOIC-8	+ 34V	116	168	0	500	0	1000	0	116000	
	MIC4681BM	66521070	SOIC-8	+ 34V	138	168	0	500	0	1000	0	138000	
	MIC4681BM	66522133-3	SOIC-8	+ 34V	116	168	0	500	0	1000	0	116000	
	MIC4682BM	531183MNB	SOIC-8	+ 34V	40	168	0	500	0	1000	0	40000	
	MIC4682BM	2A09051MNB	SOIC-8	+ 34V	40	168	0	500	0	1000	0	40000	
	MIC4682BM	2A10169MNC	SOIC-8	+ 34V	40	168	0	500	0	1000	0	40000	
	MIC4684 YM	6A27491M81	SOIC-8	+ 30V	77	168	0			1000	0	77000	
	MIC4684BM	66511009-1	SOIC-8	+ 30V	116	168	0	500	0	1000	0	116000	
MIC2178 >	MIC2177WBM	3A04084M05	WSOIC-20	+16.5V	52	168	0	500	0	1000	0	52000	
MIC2179 >	MIC2177YWM	3A02058MEA	WSOIC-20	+16.5V	116	168	0	500	0			58000	
LDO	MIC5205BM5	2A37083	SOT-23-5	+16V	70	168	0			1000	0	70000	
	MIC5205BM5	2A42082	SOT-23-5	+16V	150	168	0	500	0	1000	0	150000	
	MIC5205BM5	2A42095	SOT-23-5	+16V	150	168	0					25200	
	MIC5205BM5	2A50068MNF	SOT-23-5	+16V	150	168	0	500	0	1000	0	150000	
	MIC5205BM5	2A50068MNJ	SOT-23-5	+16V	98	304	0			1000	0	98000	
	MIC5205BM5	3A01009M01	SOT-23-5	+16V	150	168	0					25200	
	MIC5205BM5	3A02007	SOT-23-5	+16V	75	168	0			1000	0	75000	
	MIC5205BM5	3A05100	SOT-23-5	+16V	150	168	0	500	0	1000	0	150000	
	MIC5205BM5	3A07028	SOT-23-5	+16V	116	168	0	500	0	1000	0	116000	
	MIC5205BM5	3A08047M01	SOT-23-5	+16V	116	168	0	500	0	1000	0	116000	
	MIC5205BM5	3A08047M01	SOT-23-5	+16V	116	168	0	500	0	1000	0	116000	
	MIC5205BM5	3A40481MEB	SOT-23-5	+16V	69	168	0	500	0	1000	0	69000	
	MIC5205BM5	3A44781	SOT-23-5	+16V	50	168	0	500	0	1000	0	50000	
	MIC5205BM5	3A45906	SOT-23-5	+16V	50	168	0	500	0	1000	0	50000	
	MIC5205BM5	3A45907	SOT-23-5	+16V	49	168	0	500	0	1000	0	49000	
	MIC5205BM5	3A47038	SOT-23-5	+16V	50	168	0	500	0	1000	0	50000	
Regulators	MIC5205BM5	4A18975	SOT-23-5	+16V	99	168	0	500	0	1000	0	99000	

Family	Device	Lot #	Package	Vcc	Sample	Act	Act		Act				Total	
					Size	Hrs	Fails	Hrs	Fails	Hrs	Fails	Dev. Hrs	Comment	
Voltage	MIC5205BM5	4A27037	SOT-23-5	+16V	98	168	0	500	0	1000	0			98000
	MIC5205 2.9YM5	2A43078	SOT-23-5	+16V	116	168	0	500	0	1000	0			116000
	MIC5205 3.0YM5	4A44515EA	SOT-23-5	+16V	116	168	0	500	0	1000	0			116000
	MIC5205 BM5	5A19324	SOT-23-5	+16V	77	181	0	500	0	1000	0			77000
	MIC5205 BM5	5A44208M01	SOT-23-5	+16V	50	181	0	500	0	1000	0			50000
	MIC5205 BM5	5A44208	SOT-23-5	+16V	50	181	0	500	0	1000	0			50000
	MIC5206BMM	110772M07	MSOP-8	+16V	90	168	0	500	0	1000	0			90000
	MIC5206BMM	2A09096M03	MSOP-8	+16V	90	168	0	500	0	1000	0	2000	0	180000
	MIC5206BMM	3A08055M04	MSOP-8	+16V	90	168	0	500	0	1000	0	2000	0	180000
	extended to 4000 hours						3000	0	4000	0				
MIC5219 >	MIC5209BM	2A40116	SOIC-8	+16V	116	168	0	500	0	1000	0	2000	0	232000
MIC5237 >	MIC5209BM	949615MO3	SOIC-8	+16V	116	168	0	500	0	1000	0	2000	0	232000
`	MIC5209BM	3A47036M01	SOIC-8	+16V	116	168	0	500	0	1000	0			116000
	MIC5211BM6	66591610	SOT-23-6	+ 5V	232	168	0	500	0	1000	0			232000
MIC5203 >	MIC5213BC5	66926531	SC-70-5	+ 16V	232	168	0							38976
MIC5203 >	MIC5213 1.8YC5	2A45093M15	SC-70-5	+ 16V	116	168	0	500	0	1000	0			116000
MIC5203 >	MIC5213YC5	2A45093MEB	SC-70-5	+ 16V	115	168	0	500	0	1000	0			115000
MIC5203 >	MIC5213 2.8YC5	4A38652MEA	SC-70-5	+ 16V	116	168	0	500	0	1000	0			116000
MIC5203 >	MIC5213 3.3YC5	5A11140MEA	SC-70-5	+ 16V	116	168	0	500	0	1000	0		-	116000
MIC5203 >	MIC5213BC5	66914436-3	SC-70-5	+ 16V	113	168	0	500	0	1000	0			113000
MIC5203 >	MIC5213BC5	66926531-4	SC-70-5	+ 16V	114	168	0			1000	0			114000
MIC5203 >	MIC5213BC5	66926795-8	SC-70-5	+ 16V	103	168	0	500	0	1000	0			103000
	MIC5233 5.0BM5	2A07257M08	SOT-23-5	+36V	116	168	0	500	0	1000	0			116000
	MIC5235 3.0BM5	531184	SOT-23-5	+36V	116	168	0	500	0	1000	0			116000
	MIC5235 YM5	1531184M02	SOT-23-5	+36V	116	168	0	500	0	1000	0			116000
	MIC5238BM5	3A03026MNE	SOT-23-5	+ 6V	60	168	0			1000	0			60000
	MIC5238BM5	3A03026MNE	SOT-23-5	+ 6V	120	168	0							20160
	MIC5238BM5	3A03026MNC	SOT-23-5	+ 6V	60	168	0			1000	0			60000
	MIC5238BM5	3A03026MNC	SOT-23-5	+ 6V	120	168	0							20160
	MIC5238BM5	3A03025MNF	SOT-23-5	+ 6V	116	168	0	500	0	1000	0			116000
	MIC5239BMM	2A05450MEK	MSOP	+ 30V	116	168	0	500	0	1000	0			116000
	MIC5239YMM	2A05448M12	MSOP	+ 30V	77	168	0	500	0	1000	0			77000
	MIC5270BM5	211564M02	SOT-23-5	- 16V	18	328	0			1000	0			18000

Family	Device	Lot #	Package	Vcc	Sample Size	Act Hrs	Fails	Act Hrs	Fails	Act Hrs	Fails	Total Dev. Hrs	Comment
	MIC5271BM5	3A06029MNB	SOT-23-5	+ 16V	116	168	0	500	0	1000	0	116000	
	MIC5271BM5	3A26031MNE	SOT-23-5	+ 16V	116	168	0	500	0	1000	0	232000	
	<i>extended to 6000 hours</i>					3000	0	4000	0	5000	0	464000	
LM4040 >	LM4041	4A0469MEI	SOT-23	+ 18V	114	168	0	500	0	1000	0	228000	
	LM4041	4A0469MEH	SOT-23	+ 18V	115	168	0	500	0	1000	0	230000	
Op Amps	MIC6211BM5	146223M03	SOT-23-5	+ 30V	100	168	0			1000	0	100000	
					Total	7155			0		0	0	8240955

Average Failure Rate, 60% Confidence, Ta = 55C, Ea = 0.7eV
1.4 FIT (Failures in Time) or MTBF = 7.01 X 10E8 hours

* sample reduction due to handling damage or electrical overstress.