

# GTM ELECTRONICS

## SOT-89 Bipolar Transistors

Part No.	NPN OR PNP	Maximum Ratings				Electrical Characteristics (TA=25°C)											Pin Style 123
		BV <sub>CEO</sub>	BV <sub>CE0</sub> BV <sub>CES</sub>	I <sub>C</sub>	PD T <sub>A</sub> 25°C	I <sub>CEO</sub> I <sub>CBO</sub> I <sub>CES</sub> I <sub>CEX</sub> I <sub>CEV</sub>	MAX					MAX			f <sub>T</sub> MIN Typ #	C <sub>ob</sub> MAX Typ #	
							V <sub>CB</sub> V <sub>CE</sub> V <sub>CEV</sub>	hFE Typ	I <sub>C</sub>	V <sub>CE</sub>	V <sub>CE</sub> (SAT)	I <sub>C</sub>	I <sub>B</sub>				
														V			
GM1188	PNP	-40	-32	-2000	500	-1000	-20	82	390	-500	-3	-0.8	-2000	-200	#150	#50	BCE
GM1213	PNP	-50	-50	-2000	1000	-100	-50	70	240	-500	-2	-0.5	-1000	-50	#120	#40	BCE
GM1300	PNP	-20	-10	-2000	1000	-100	-20	140	1000	-500	-1	-0.5	-2000	-50	#140	#50	BCE
GM1386	PNP	-30	-20	-5000	1000	-500	-20	82	390	-500	-2	-1	-4000	-100	#120	#60	BCE
GM1426	PNP	-20	-20	-3000	1200	-100	-20	160	390	-100	-2	-0.5	-2000	-100	#240	#35	BCE
GM156	NPN	80	60	3000	1200	100	60	100	300	500	2	0.6	3000	300	#175	30	BCE
GM157	PNP	-80	-60	-3000	1200	-100	-60	100	300	-500	-2	-0.6	-3000	-300	#140	30	BCE
GM1616A	NPN	120	60	1000	750	100	60	135	600	100	2	0.3	1000	50	100	19	BCE
GM1766	NPN	40	32	2000	1200	1000	20	82	390	500	3	0.8	2000	200	#100	#30	BCE
GM1898	NPN	100	80	1000	500	1000	80	82	390	500	3	0.4	500	20	#100	#25	BCE
GM194	NPN	80	60	1000	1000	100	60	100	300	500	5	0.5	1000	100	150	10	BCE
GM194A	NPN	40	40	1000	1000	100	30	300	900	500	5	0.5	1000	100	150	10	BCE
GM195	PNP	-80	-60	-1000	1000	-100	-60	100	300	-500	-5	-0.6	-1000	-100	150	10	BCE
GM195A	PNP	-40	-40	-1000	1000	-100	-30	300	900	-100	-5	-0.5	-1000	-100	150	10	BCE
GM2098	NPN	50	20	5000	2000	500	40	120	390	500	2	1	4000	100	#150	#30	BCE
GM2222A	NPN	75	40	600	1200	10	60	100	300	150	10	0.3	150	15	300	-	BCE
GM2907A	PNP	-60	-60	-600	1200	-10	-50	100	300	-150	-10	-0.4	-150	-15	200	8	BCE
GM3019	NPN	140	80	1000	1000	50	90	100	300	150	10	0.2	150	15	100	12	BCE
GM3669	NPN	80	80	2000	1000	1000	80	300	-	500	2	0.5	1000	50	#100	#30	BCE
GM3904	NPN	60	40	200	1000	50	30	100	300	10	1	0.2	10	1	300	4	BCE
GM3906	PNP	-40	-40	-200	1000	-50	-30	100	300	-10	-1	-0.25	-10	-1	250	4.5	BCE
GM4033	PNP	-80	-80	-1000	1200	-100	-60	75	-	-0.1	-5	-0.15	-150	-15	100	20	BCE
GM4132	NPN	120	120	2000	1200	1000	100	82	390	100	5	0.4	1000	100	#80	#20	BCE
GM4401	NPN	60	40	600	1000	100	35	100	300	150	1	0.4	150	15	250	6.5	BCE
GM4403	PNP	-40	-40	-600	1000	-100	-35	100	300	-150	-2	-0.4	-150	-15	200	8.5	BCE
GM4672	NPN	60	50	2000	2000	100	60	120	400	500	2	0.35	1000	50	#210	#25	BCE
GM5401	PNP	-160	-150	-600	1000	-50	-120	60	240	-10	-5	-0.2	-10	-1	100	6	BCE
GM5551	NPN	180	160	600	1200	50	120	80	250	10	5	0.15	10	1	100	6	BCE
GM5824	NPN	60	60	3000	1200	1000	40	120	390	100	2	0.5	2000	200	#200	#20	BCE
GM649A	PNP	-180	-160	-1500	1000	-10000	-160	60	200	-150	-5	-1	-600	-50	#140	#27	BCE
GM6718	NPN	100	100	1000	1000	100	80	100	310	250	1	0.35	350	35	50	20	BCE
GM669A	NPN	180	160	1500	1000	10000	160	60	200	150	5	1	600	50	#140	-	BCE
GM772	PNP	-40	-30	-3000	1200	-1000	-30	100	500	-1000	-2	-0.5	-2000	-200	#80	#55	BCE
GM8050	NPN	40	25	1500	1000	100	35	120	500	100	1	0.5	800	80	100	-	BCE
GM8550	PNP	-40	-25	-1500	1000	-100	-35	120	500	-100	-1	-0.5	-800	-80	100	-	BCE
GM882	NPN	40	30	3000	1200	1000	30	100	500	1000	2	0.5	2000	200	#90	#45	BCE
GM965	NPN	40	20	5000	1200	100	60	230	800	500	2	1	3000	100	#150	50	BCE
GMA06	NPN	80	80	500	1200	100	80	50	-	10	1	0.25	100	10	100	-	BCE
GMA14	NPN	30	30	500	1000	100	30	20K	-	100	5	1.5	100	0.1	125	-	BCE
GMA27	NPN	60	60	500	1000	100	50	10K	-	100	5	1.5	100	0.1	-	-	BCE
GMA42	NPN	300	300	500	1000	100	260	40	-	10	10	0.5	20	2	50	#3	BCE
GMA42M	NPN	300	300	500	500	250	200	80	250	10	10	0.2	20	2	50	-	BCE
GMA44	NPN	500	400	300	1000	100	400	50	300	10	10	0.375	20	2	-	#4	BCE
GMA64	PNP	-30	-30	-500	1000	-100	-30	20K	-	-100	-5	-1.5	-100	-0.1	125	-	BCE
GMA92	PNP	-300	-300	-500	1000	-250	-200	40	-	-10	-10	-0.5	-20	-2	50	6	BCE
GMA94	PNP	-400	-400	-300	1000	-100	-400	50	300	-10	-10	-0.35	-1	-0.1	-	-	BCE
GMBCP56	NPN	100	80	1000	1200	100	30	63	250	150	2	0.5	500	50	100	-	BCE

GMBCX53	PNP	-100	-80	-1000	1200	-100	-30	63	250	-150	-2	-0.5	-500	-50	100	-	BCE
GSB1132	PNP	-40	-32	-1000	2000	-500	-20	82	390	-100	-3	-0.5	-500	-50	#150	30	BCE
GSD1624	NPN	60	50	3000	500	1000	40	100	560	100	2	0.5	2000	100	#150	#25	BCE
GMSD1664	NPN	40	32	1000	500	500	20	82	390	100	3	0.4	500	50	#150	#15	BCE

量產	未量產	有樣品	工程實驗未產出
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