

Transistors

ATR • ATV

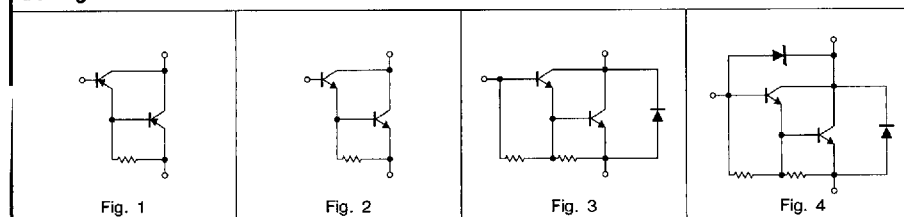
Approximately the same size as the TO-92 with up to 1 W power capability.

Taped type for automated placement or bulk packaging available.

Application	Package		V _{CEO} (V) *V _{CES} **V _{CER}	I _c (A)	I _c Max. (A)	P _c (mW) (T _a = 25°C)	h _{FE}	h _{FE} Ranking code	V _{CE} (V)	I _c (mA)	Internal circuit	
	ATR	ATV										
	Part No.											
Low Noise	2SA937AMLN	—	—50	—0.15	—	300	180~560	R S	—6	—1	—	
	2SC2021MLN	—	40	0.15	—	300	390~820	E	6	1	—	
			50	0.15	—	300	180~560	R S	6	1	—	
	2SA937AM	2SA1547A	—50	—0.15	—	300	82~390	P Q R	—6	—1	—	
Pre Amp	2SC2021M	2SC4010	40	0.15	—	300	390~820	E	6	1	—	
			50	0.15	—	300	120~560	Q R S	6	1	—	
	2SC4776M	2SC4778	25	0.1	0.2	400	180~560	R S	6	1	—	
Driver	2SA874M	2SA1548	—32	—0.5	—	300	82~390	P Q R	—3	—100	—	
	2SB909M	2SB1237	—32	—1	—	1000*	82~390	P Q R	—3	—100	—	
	2SB910M	2SB1238	—80	—0.7	—	1000*	82~390	P Q R	—3	—100	—	
	2SB911M	2SB1240	—32	—2	—3	1000*	82~390	P Q R	—3	—500	—	
	2SB1042M	2SB1241	—80	—1	—	1000*	82~390	P Q R	—3	—100	—	
	2SB1044M	2SB1242	—50	—1	—	1000*	82~390	P Q R	—3	—100	—	
	2SB1066M	2SB1243	—50	—3	—	1000*	56~390	N P Q R	—3	—500	—	
	2SB1130AM	2SB1236A	—160	—1.5	—3	1000*	56~270	N P Q	—5	—100	—	
	2SB1130M	2SB1236	—120	—1.5	—3	1000*	56~390	N P Q R	—5	—100	—	
	2SC1652M	2SC4016	32	0.5	—	400	82~390	P Q R	3	100	—	
	2SD1225M	2SD1858	32	1	—	1000*	82~390	P Q R	3	100	—	
	2SD1226M	2SD1859	80	0.7	—	1000*	82~390	P Q R	3	100	—	
	2SD1227M	2SD1862	32	2	2.5	1000*	82~390	P Q R	3	500	—	
	2SD1228M	2SD1860	50	0.5	—	600	82~390	P Q R	3	100	—	
	2SD1293M	2SD1863	80	1	2	1000*	82~390	P Q R	3	500	—	
	2SD1507M	2SD1864	50	3	—	1000*	82~390	P Q R	3	500	—	
	2SD1665AM	2SD1857A	160	1.5	3	1000*	56~270	N P Q	5	100	—	
	2SD1665M	2SD1857	120	1.5	3	1000*	56~390	N P Q R	5	100	—	
	Storobo Flash Low V _{CE(sat)}	2SB1307M	2SB1326	—20	—5	—10	1000*	82~390	P Q R	—2	—500	—
		2SD1962M	2SD2097	20	5	10	1000*	120~560	Q R S	2	500	—
Low V _{CE(sat)}	2SB1485M	2SB1443	—50	—2	—5	1000*	82~270	P Q	—2	—500	—	
	2SD1469M	2SD1865	15	1	—	600	120~560	Q R S	3	100	—	
	—	2SD2264	20	3	5	1000*	120~560	Q R S	2	100	—	
Chroma	2SD2197M	2SD2279	50	2	5	1000*	82~270	P Q	2	500	—	
	2SC3270M	2SC4015	300	0.1	—	1000*	39~180	M N P	10	10	—	
High h _{FE}	—	2SB1460	—20	—2	—3	1000*	270~820	S E	—6	—500	—	
High h _{FE}	2SD2145M	2SD2192	20	0.5	1	400	560~2700	U V W	3	10	—	
High V _{EB0}	2SD2313M	2SD2315	50	0.15	0.2	400	560~2700	U V W	5	1	—	
Darlington	2SA790M	2SA1549	—32*	—0.3	—1.5	300	5k~	—	—5	—100	Fig. 1	
	2SB1076M	2SB1239	—40**	—2	—	1000*	1k~	A	—3	—500	Fig. 1	
	2SC1545M	2SC4017	32*	0.3	1.5	300	5k~	—	5	100	Fig. 2	
	—	2SC5060	90±10	1	2	1000	1k~5k	M N	3	500	Fig. 4	
	2SD1536M	2SD1861	40**	2	—	1000*	1k~	A	3	500	Fig. 2	
	2SD1660M	2SD1867	100	2	—	1000*	1k~10k	—	2	1000	Fig. 3	
	2SD1661M	2SD1866	60±10	2	—	1000*	1k~10k	—	2	1000	Fig. 4	
High Voltage SW	—	2SA1776	—400	—0.5	—1	1000*	82~270	P Q	—5	—50	—	
	—	2SA1920	—600	—0.1	—0.2	1000	56~270	N P Q	10	10	—	
	2SC4295M	2SC4620	400	0.1	—	1000*	56~270	N P Q	10	10	—	

Note : ★PC board (collector's copper foil area, 1cm² or over ; PC board thickness, 1.7mm)

Darlington transistor Internal circuit



ATR • ATV High frequency type

Application		Package		V _{CEO} (V)	I _c (mA)	f _T (MHz)	C _{ob} (pF)	h _{FE}	h _{FE} Ranking code	V _{CE} (V)	I _c (mA)
		ATR	ATV								
		Part No.									
AMFM VHF UHF	FM IF AM RF	2SC3078M	2SC4012	32	100	230	1.8	56~180	N P	6	2
		2SC2063M	2SC4011	25	50	300	1.6	56~270	N P Q	6	1
	FM RF Mix. Osc.	2SC3079M	2SC4013	20	20	500	1.4	39~180	M N P	6	1
	TV IF	2SC5082M	2SC5083	25	50	650	1.6	27~180	L M N P	10	10
	TV Tuner Mix. Osc.	2SC3080M	2SC4014	19	50	1100	1.2	39~270	M N P Q	10	5

