



Transistors <Pin Inserting Types>

ROHM CO LTD

56E D ■ 7828999 0007034 044 ■ RHM

■ ATR · ATV

Almost the same size as TO-92 but 1W Pc package type.

Taped type for automated placement; or bulk specification.

T-27-21

Application	Package		V _{CE0} (V) * V _{CEs} ** V _{CEr}	I _c (A)	I _c Max. (A)	P _c (mW) (T _a =25°C)	h _{FE}	V _{CE} (V)	I _c (mA)	
	ATR	ATV								
	Type									
Low Noise	2SA937MLN	—	—40	—0.1	—	300	180~560	—6	—1	
	2SC2021MLN	—	40	0.1	—	300	180~820	6	1	
	2SA937M	2SA1547	—40	—0.1	—	300	82~390	—6	—1	
Pre Amp	2SC2021M	2SC4010	40	0.1	—	300	120~820	6	1	
	2SC4776M	2SC4778	25	0.1	0.2	400	180~560	6	1	
Driver	2SA874M	2SA1548	—32	—0.5	—	300	82~390	—3	—100	
	2SB909M	2SB1237	—32	—1	—	1000 *	82~390	—3	—100	
	2SB910M	2SB1238	—80	—0.7	—	1000 *	82~390	—3	—100	
	2SB911M	2SB1240	—32	—2	—3	1000 *	82~390	—3	—500	
	2SB1042	2SB1241	—80	—1	—	1000 *	82~390	—3	—100	
	2SB1044M	2SB1242	—50	—1	—	1000 *	82~390	—3	—100	
	2SB1066M	2SB1243	—50	—3	—	1000 *	56~390	—3	—500	
	2SB1130AM	2SB1236A	—160	—1.5	—3	1000 *	56~270	—5	—100	
	2SB1130M	2SB1236	—120	—1.5	—3	1000 *	56~390	—5	—100	
	2SC1652M	2SC4016	32	0.5	—	400	82~390	3	100	
	2SD1225M	2SD1858	32	1	—	1000 *	82~390	3	100	
	2SD1226M	2SD1859	80	0.7	—	1000 *	82~390	3	100	
	2SD1227M	2SD1862	32	2	2.5	1000 *	82~390	3	500	
	2SD1228M	2SD1860	50	0.5	—	600	82~390	3	100	
	2SD1293M	2SD1863	80	1	2	1000 *	82~390	3	500	
	2SD1507M	2SD1864	50	3	—	1000 *	82~390	3	500	
	2SD1665AM	2SD1857A	160	1.5	3	1000 *	56~270	5	100	
	2SD1665M	2SD1857	120	1.5	3	1000 *	56~390	5	100	
	Storobo Flash Low V _{CE} (sat)	2SB1307M	2SB1326	—20	—5	—10	1000 *	82~390	—2	—500
		2SD1962M	2SD2097	20	5	10	1000 *	120~560	2	500
Low V _{CE} (sat)	2SB1485M	2SB1443	—50	—2	—5	1000 *	82~270	—2	—500	
	2SD1469M	2SD1865	15	1	—	600	120~560	3	100	
	—	2SD2264	20	3	5	1000 *	120~560	2	100	
	2SD2197M	☆2SD2279	50	2	5	1000 *	82~270	2	500	
Chroma	2SD3270M	2SC4015	300	0.1	—	1000 *	39~180	10	10	
High h _{FE}	—	2SB1480	20	—2	—3	1000 *	270~1200	—6	—500	
Darlington	2SA790M	2SA1549	—32 *	—0.3	—1.5	300	1k~	—5	—100	
	2SB1076M	2SB1239	—40 **	—2	—	1000 *	1k~	—3	—500	
	2SC1545M	2SC4017	32 *	0.3	1.5	300	1k~	5	100	
	2SD1536M	2SD1861	40 **	2	—	1000 *	1k~	3	500	
	2SD1660M	2SD1867	100	2	—	1000 *	1k~10k	2	1000	
	2SD1661M	2SD1866	60 ± 10	2	—	1000 *	1k~10k	2	1000	
High Voltage SW	—	2SA1776	—400	—0.5	—1	1000 *	82~270	—5	—50	
	2SC4295M	2SC4620	400	0.1	—	1000 *	56~270	10	10	
High h _{FE} High V _{EB0}	2SD2145M	2SD2192	20	0.5	1	400	560~2700	3	10	
	2SD2313M	2SD2315	50	0.15	0.2	400	560~2700	5	1	
TV Tuner Mix.Osc.	2SC3080M	2SC4014	19	0.05	—	300	39~270	10	5	
FM RF Mix Osc.	2SC3079M	2SC4013	20	0.02	—	150	39~180	6	1	
FM IF AM RF	2SC2063M	2SC4011	25	0.05	—	250	56~270	6	1	
	2SC3078M	2SC4012	32	0.1	—	250	39~180	6	2	

Notes) 1. ☆ Under Development

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

3. * For RF transistors, see "RF Transistors" on page 149.

●Ordering Designation

Specify type code in order sheet.

Type is described using type name, special specifications, package specifications and h_{FE} ranking.

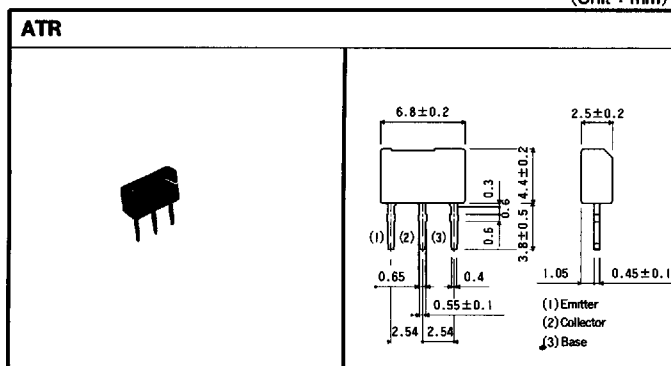
Code	Package	Package specifications	Quantity /Package (pcs)
C2	ATR	Tube	8000 (80pcs×100)
—		Bulk	2000
TV2	ATV	Ammo taping	2500
TV3			
TV4			
TV6			

Package specifications code

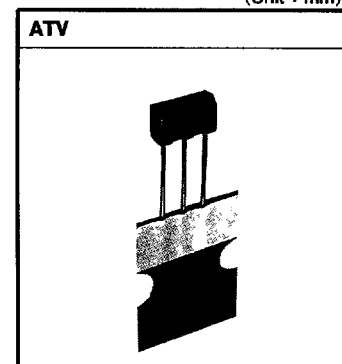
2	S	A	9	3	7	M			C	2	R
Type name							Special specifications code		h_{FE} Ranking		

Code	h_{FE} Range
L	27~56
M	39~82
N	56~120
P	82~180
Q	120~270
R	180~390
S	270~560
E	390~820
U	560~1200
V	820~1800
W	1200~2700
A	1k~
B	5k~

(Unit : mm)



(Unit : mm)



TV2 Dimensions: 6.8±0.2, 2.5±0.2, 0.9, 4.4±0.2, 0.65Max., 0.5±0.1, 1.05, 0.45±0.1, 2.54, 2.54, 0.55±0.1, 0.6, 0.3, 3.8±0.5, 1.0, 0.45±0.1. Pin connections: (1) Emitter, (2) Collector, (3) Base.	TV3 Dimensions: 6.8±0.2, 2.5±0.2, 0.9, 4.4±0.2, 1.3Max., 0.5±0.1, 1.05, 0.45±0.1, 2.54, 2.54, 0.55±0.1, 0.6, 0.3, 3.8±0.5, 1.0, 0.45±0.1. Pin connections: (1) Emitter, (2) Collector, (3) Base.	TV4 Dimensions: 6.8±0.2, 2.5±0.2, 0.9, 4.4±0.2, 0.53Max., 0.5±0.1, 1.05, 0.45±0.1, 2.54, 2.54, 0.55±0.1, 0.6, 0.3, 3.8±0.5, 1.0, 0.45±0.1. Pin connections: (1) Emitter, (2) Collector, (3) Base.	TV6 Dimensions: 6.8±0.2, 2.5±0.2, 0.9, 4.4±0.2, 1.3Min., 0.5±0.1, 1.05, 0.45±0.1, 2.54, 2.54, 0.55±0.1, 0.6, 0.3, 3.8±0.5, 1.0, 0.45±0.1. Pin connections: (1) Emitter, (2) Collector, (3) Base.
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Transistors <Pin Inserting Types>

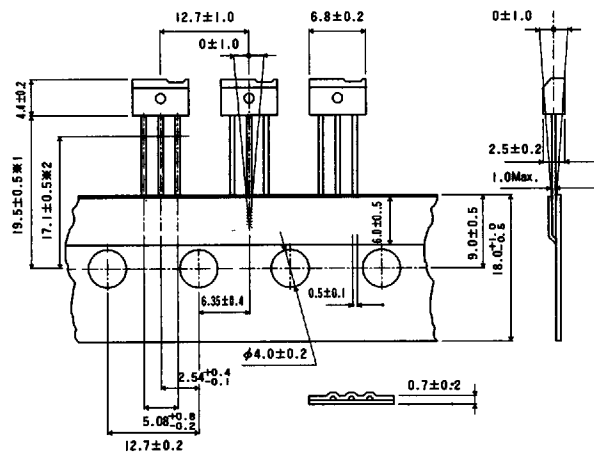
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● Package Specifications

(Unit : mm)

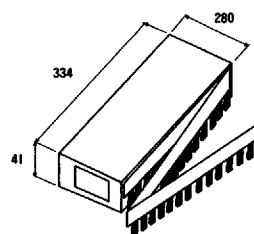
ATV Taping



※ 1. ATV TV4 : 16.5 ± 0.5

※ 2. Applies to ATV TV3. 16.0 ± 0.5 for ATV TV6

ATV Ammo taping



(Unit : mm)

ATR Container tube

