RCA Type No.	Chart No.	Line No.	Class	File No.
40486	42	18	TRI	352
40487	17	9	T	253
40488	17	7	T	253
40489	17	8	T	253
40490	2	10	T	253
40491	5	9	T	253
40495	36	14	R	253
40502	42	15	TRI	351
40503	42	16	TRI	351
40504	44	7	SCR	266
40505	44	8	SCR	266
40506	44	9	SCR	266
40507	44	15	SCR	265
40508	44	16	SCR	265
40509	42	19	TRI	352
40510	42	20	TRI	352
40511	42	31	TRI	263
40512	42	32	TRI	263
40513	6, 29	49, 12	T	244
40514	6, 29	46, 9	T	244
40517	16	45	T	276
40518	16	46	T	277
40519	16	2	T	278
40525	42	1	TRI	261
40526	42	2	TRI	261
40527	42	3	TRI	261
40528	42	4	TRI	261
40529	42	5	TRI	261
40530	42	6	TRI	261
40531	42	7	TRI	262
40532	42	8	TRI	262
40533	42	9	TRI	262
40534	42	10	TRI	262
40535	42	11	TRI	262
40536	42	12	TRI	262
40537	8	3	T	302
40538	8	4	T	302
40539	4	52	T	303
40542	6	50	T	304
40543	6	51	T	304
40544	5	5	T	303
40546 §	5	13	T	14
40547 §	5	14	T	14
40553	44	10	SCR	306
40554	44	11	SCR	306
40555	44	12	SCR	306
40559	13	11	MOS	287
40559A	13	7	MOS	323
40561	33	1	TD	315
40562	33	4	TD	315
40563	33	7	TD	315
40564	33	10	TD	315
40565	33	13	TD	315
40566	33	2	TD	315
40567	33	5	TD	315
40568	33	8	TD	315
40569	33	11	TD	315
40570	33	14	TD	315
40571	33	3	TD	315
40572	33	6	TD	315
40573	33	9	TD	315
40574	33	12	TD	315
40575	42	23	TRI	300
40576	42	24	TRI	300
40577	18	9	T	297
40578	18	13	T	298
40581	18	27	T	301
40582	18	28	T	301
40583	43	2	DIAC	329
40594	5	32	T	—
40595	8	17	T	—
40598	54	1	ED	330
40600	14	5	MOS	333
40601	14	1	MOS	333
40602	14	8	MOS	333
40603	14	7	MOS	334

RCA Type No.	Chart No.	Line No.	Class	File No.
40604	14	6	MOS	334
40608	**18**	**47**	**T**	**356**
40611	4	53	T	358
40612	10	23	T	358
40613	6	18	T	358
40616	4	54	T	358
40618	6	19	T	358
40621	6	20	T	358
40622	6	21	T	358
40623	10	24	T	358
40624	6	35	T	358
40625	4	56	T	358
40626	10	25	T	358
40627	6	36	T	358
40628	4	57	T	358
40629	6	22	T	358
40630	6	23	T	358
40631	6	24	T	358
40632	6	37	T	358
40633	6	52	T	358
40634	8	12	T	358
40635	4	55	T	358
40636	7	3	T	358
40637	**15**	**10a**	**T**	**355**
40638	42	21	TRI	352
40639	42	22	TRI	352
40640	**44**	**12a**	**SCR**	**354**
40641	**44**	**12b**	**SCR**	**354**
40642	**36**	**44a**	**R**	**354**
40643	**36**	**44b**	**R**	**354**
40644	**36**	**44c**	**R**	**354**
40660	**42**	**24a**	**TRI**	**357**
40661	**42**	**24b**	**TRI**	**357**
40662	**42**	**24c**	**TRI**	**357**
40663	**42**	**24d**	**TRI**	**357**
CA3000	46	1	IC	121
CA3001	46	2	IC	122
CA3002	46	3	IC	123
CA3004	46	4	IC	124
CA3005	46	5	IC	125
CA3006	46	6	IC	125
CA3007	46	7	IC	126
CA3008	49	1	IC	316
CA3008A	49	2	IC	310
CA3010	49	3	IC	316
CA3010A	49	4	IC	310
CA3011	46	13	IC	128
CA3012	46	14	IC	128
CA3013	46, 47	15, 1	IC	129
CA3014	46, 47	16, 2	IC	129
CA3015	49	5	IC	316
CA3015A	49	6	IC	310
CA3016	49	7	IC	316
CA3016A	49	8	IC	310
CA3018	48	3	IC	338
CA3018A	48	4	IC	338
CA3019	48	1	IC	236
CA3020	46	8, 17	IC	339
CA3020A	46	9, 18	IC	339
CA3021	46	19	IC	243
CA3022	46	20	IC	243
CA3023	46	21	IC	243
CA3026	46, 48	10, 5	IC	342
CA3028A	46	11	IC	327
CA3028B	46	12	IC	327
CA3029	49	9	IC	316
CA3029A	49	10	IC	310
CA3030	49	11	IC	316
CA3030A	49	12	IC	310
CA3031/ 702A	49	13	IC	241
CA3032/ 702C	49	14	IC	241
CA3033	49	15	IC	317
CA3033A	49	16	IC	317
CA3034	47	3	IC	273
CA3034V1	47	4	IC	273

RCA Type No.	Chart No.	Line No.	Class	File No.
CA3035	46, 47, 48	22, 5, 9	IC	274
CA3035V1	46, 47, 48	23, 6, 10	IC	274
CA3036	48	6	IC	275
CA3037	49	17	IC	316
CA3037A	49	18	IC	310
CA3038	49	19	IC	316
CA3038A	49	20	IC	310
CA3039	48	2	IC	343
CA3041	46, 47	24, 7	IC	318
CA3042	46, 47	25, 8	IC	319
CA3043	46, 47	26, 9	IC	331
CA3044	47	10	IC	340
CA3044V1	47	11	IC	340
CA3045	48	7	IC	341
CA3046	48	8	IC	341
CA3047	49	21	IC	344
CD2100	51	17	IC	130
CD2101	51	18	IC	130
CD2150	51	13	IC	308
CD2151	51	14	IC	308
CD2152	51	15	IC	308
CD2153	51	16	IC	308
CD2200	51	1	IC	132
CD2200D	51	2	IC	307
CD2201	51	3	IC	132
CD2201D	51	4	IC	307
CD2202	51	5	IC	227
CD2202D	51	6	IC	307
CD2203	51	7	IC	133
CD2203D	51	8	IC	307
CD2204	51	9	IC	226
CD2204D	51	10	IC	307
CD2205	51	11	IC	233
CD2205D	51	12	IC	307
CD2300/ 930	50	1	IC	332
CD2300D/ 930	50	2	IC	332
CD2300E/ 830	50	3	IC	332
CD2301/ 961	50	4	IC	332
CD2301D/ 961	50	5	IC	332
CD2301E/ 861	50	6	IC	332
CD2302/ 946	50	19	IC	332
CD2302D/ 946	50	20	IC	332
CD2302E/ 846	50	21	IC	332
CD2303/ 949	50	22	IC	332
CD2303D/ 949	50	23	IC	332
CD2303E/ 849	50	24	IC	332
CD2304/ 945	50	40	IC	332
CD2304D/ 945	50	41	IC	332
CD2304E/ 845	50	42	IC	332
CD2305/ 948	50	43	IC	332
CD2305D/ 948	50	44	IC	332
CD2305E/ 848	50	45	IC	332
CD2306/ 932	50	7	IC	332
CD2306D/ 932	50	8	IC	332
CD2306E/ 832	50	9	IC	332

For Industrial & Military Applications

Chart 45 — $I_{T(RMS)}$: to 40 A

Si Triacs

Gated Bidirectional

LINE NO	RCA Type	File No.	Features	Package (See Outlines Section)	MAX. RATINGS: ON-STATE CURRENT $I_{T(RMS)}$ A	$I_{T(RMS)}$ at Tc	I_{TSM} for 1~ A	V_{DROM} T_j = 100°C gate open V	GATE POWER P_{GM} W	$P_{G(AV)}$ W	CHARACTERISTICS V_{GT} Tc = 25°C max V	I_{GT} Tc = 25°C max mA
1	40525	261	low-volt. oper.	TO-5 modified three 1" leads	2.5	60°C	25	100[t]	10	0.15	2.2	3
2	40526	261	120-V line oper.	TO-5 modified three 1" leads	2.5	60°C	25	200[t]	10	0.15	2.2	3
3	40527	261	240-V line oper.	TO-5 modified three 1" leads	2.5	60°C	25	400[t]	10	0.15	2.2	3
4	40528	261	low-volt. oper.	TO-5 modified three 1" leads	2.5	70°C	25	100	10	0.15	2.2	10
5	40529	261	120-V line oper.	TO-5 modified three 1" leads	2.5	70°C	25	200	10	0.15	2.2	10
6	40530	261	240-V line oper.	TO-5 modified three 1" leads	2.5	70°C	25	400	10	0.15	2.2	10
7	40531	262	factory-attached heat radiators with tabs for printed-circuit boards	D	2.5	at T_A 60°C	See type 40525 for data and features.					
8	40532	262	factory-attached heat radiators with tabs for printed-circuit boards	D	2.5	at T_A 60°C	See type 40526 for data and features.					
9	40533	262	factory-attached heat radiators with tabs for printed-circuit boards	D	2.5	at T_A 60°C	See type 40527 for data and features.					
10	40534	262	factory-attached heat radiators with tabs for printed-circuit boards	D	2.5	at T_A 70°C	See type 40528 for data and features.					
11	40535	262	factory-attached heat radiators with tabs for printed-circuit boards	D	2.5	70°C	See type 40529 for data and features.					
12	40536	262	factory-attached heat radiators with tabs for printed-circuit boards	D	2.5	70°C	See type 40530 for data and features.					
13	40429	351	Controls 720W@120V 1440W@240V	TO-66	6	75°C	80	200	20	0.2	2.2	25
14	40430	351	Controls 720W@120V 1440W@240V	TO-66	6	75°C	80	400	20	0.2	2.5	25
15	40502	351	factory-attached heat radiators	E	6	at T_A 75°C	See type 40429 for data and features.					
16	40503	351	factory-attached heat radiators	E	6	at T_A 75°C	See type 40430 for data and features.					
17	40485	352	120-V line oper.	TO-5 modified 2 1" leads	6	75°C	100	200	20	0.2	2.2	25
18	40486	352	240-V line oper.	TO-5 modified 2 1" leads	6	75°C	100	400	20	0.2	2.2	25
19	40509	352	factory-attached heat radiators	D	6	at T_A 75°C	See type 40485 for data and features.					
20	40510	352	factory-attached heat radiators	D	6	at T_A 75°C	See type 40486 for data and features.					
21	40638	352	integral heat spreaders	K	6	58°C	100	200	16	0.2	2.2	40
22	40639	352	integral heat spreaders	K	6	58°C	100	400	16	0.2	2.2	40
23	40575	300	Controls 1800W@120V	TO-66	15	70°C	100	200	20	0.45	2.5	80
24	40576	300	Controls 3600W@240V	TO-66	15	70°C	100	400	20	0.45	2.5	80
24a	40660	357	Controls 3600W@120V	G	30	65°C	300	200	40	0.75	2.5	50
24b	40661	357	Controls 7200W@240V	G	30	65°C	300	400	40	0.75	2.5	50
24c	40662	357	Controls 3600W@120V	F	30	65°C	300	200	40	0.75	2.5	50
24d	40663	357	Controls 7200W@240V	F	30	65°C	300	400	40	0.75	2.5	50
25	2N5441	337	Controls 5000W@120V	G	40	70°C	300	200	40	0.75	2.5	50
26	2N5442	337	Controls 10000W@240V	G	40	70°C	300	400	40	0.75	2.5	50
27	2N5444	337	Controls 5000W@120V	F	40	65°C	300	200	40	0.75	2.5	50
28	2N5445	337	Controls 10000W@240V	F	40	65°C	300	400	40	0.75	2.5	50
	Integral Trigger Types				V_{GM}(max) at Tc = 25°C = 40 V, Gate Trigger Cap. (min) = 0.1 μF							
29	40431	257	120-V line oper.	TO-5 modified 2 1" leads	6	75°C	100	200	20	0.2	—	—
30	40432	257	240-V line oper.	TO-5 modified 2 1" leads	6	75°C	100	400	20	0.2	—	—
31	40511	263	factory-attached heat radiators	D	6	at T_A 75°C	See type 40431 for data and features.					
32	40512	263	factory-attached heat radiators	D	6	at T_A 75°C	See type 40432 for data and features.					

Applications

- AC load controls:
  - heating
  - induction motors
  - lighting
  - phase control of AC loads

[t] At T_j = 90°C

Chart 46 — I_{FM}: to 2 A

Si Diacs

Bidirectional Trigger Diodes for Triggering Triacs

For Applications see chart above

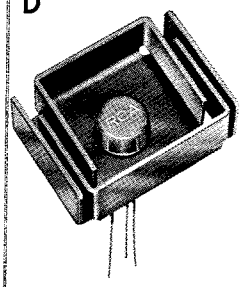
LINE NO	RCA Type	File No.	Features	Package (See Outlines Section)	MAX. RATINGS: I_{FM} for pulse duration = 30μs duty factor = 0.004 A	Device Dissipation to Tc = 75°C W	CHARACTERISTICS at Tc = 25°C: $V_{(BO)O}$ forward or reverse min V	Breakover Voltage Symmetry max V	Breakover Voltage Change forward or reverse min ΔV	$I_{(BO)M}$ max μA
1	1N5411	328	either polarity off-to-on state switching	DO-26	2	0.5	29	±3	5	50
2	40583	329	either polarity off-to-on state switching	DO-26	2	0.5	27	±3	5	50

Outlines for Semiconductor Devices

Outlines shown are approximately actual size except where indicated otherwise.

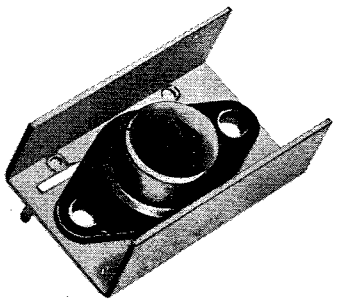
For detailed socket and mounting-hardware information on the devices shown above, refer to the specific data booklet or RCA Technical Publications.

D



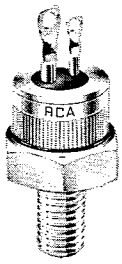
TO-5 with radiator

E

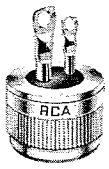


TO-66 with radiator

F



G

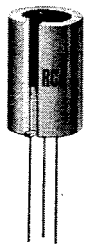


Press fit

H

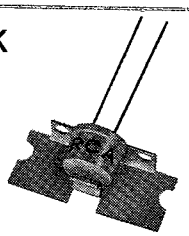
Low profile

J



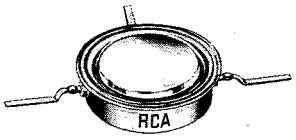
TO-104 with radiator

K



TO-5 with heat spreader

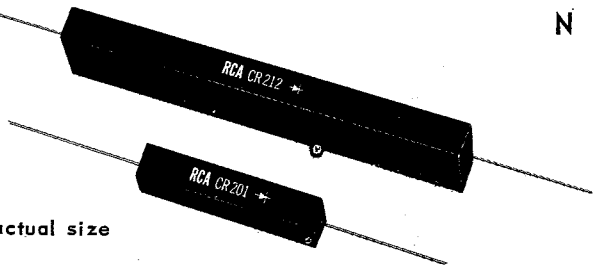
L



M

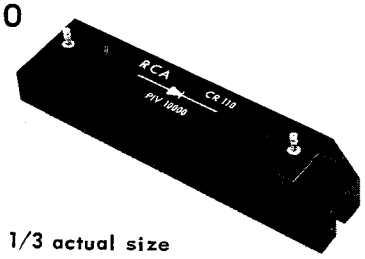
2X actual size

N



1/2 actual size

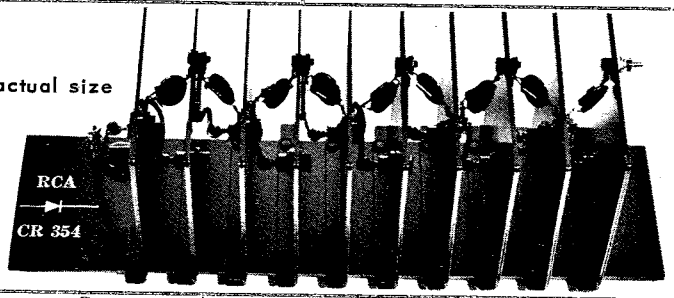
O



1/3 actual size

P

1/4 actual size



Q

1/3 actual size

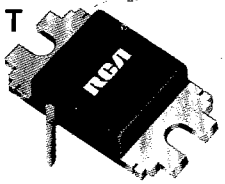
R

1/3 actual size

S

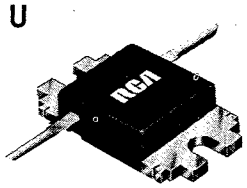
1/3 actual size

T



Mounts in TO-3 socket

U



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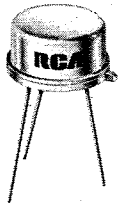

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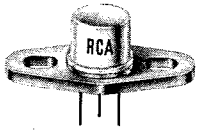
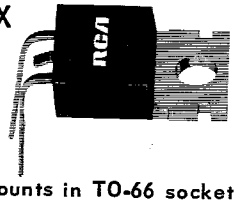


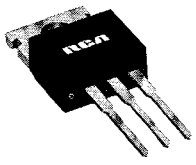
TO-39 with flange

X



Mounts in TO-66 socket

Y



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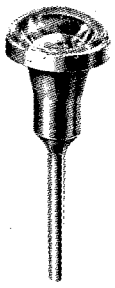


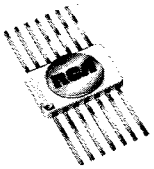
5X actual size

INTEGRATED CIRCUITS

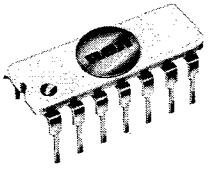
8-lead

10-lead

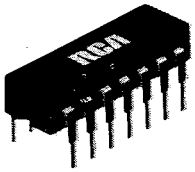
12-lead



Ceramic flat pack

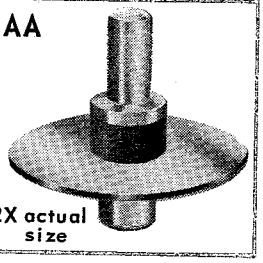


TO-116 ceramic dual in-line



Plastic dual in-line

AA



2X actual size