













Triac Product Matrix (continued)

RCA Triacs		 J Isolated Stud	 AA	 BB	 CC	 G-1 Press Fit	 H-1 Stud							
STANDARD	I_T (RMS)	10A	15A	10A	15A	10A	15A	10A	15A	30A	40A	30A	40A	
	I_{TSM} (60 Hz)	100A	100A	100A	100A	100A	100A	100A	100A	300A	300A	300A	300A	
	V_{DROM} (V)	100												
		200	T4121B	T4120B	T4131B	T4130B	T4141B	T4140B	T4151B	T4150B	T6401B	2N5441	T6411B	2N5444
		400	T4121D	T4120D	T4131D	T4130D	T4141D	T4140D	T4151D	T4150D	T6401D	2N5442	T6411D	2N5445
		450												
		600	T4121M	T4120M	T4131M	T4130M	T4141M	T4140M	T4151M	T4150M	T6401M	2N5443	T6411M	2N5446
		800										T6400N		T6410N
	I_{GT} (mA)													
		I+, III-	25	50	25	50	25	50	25	50	50	50	50	50
	I-, III+	40	80	40	80	40	80	40	80	80	80	80	80	
V_{GT} (V)														
	All Modes	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
	File No.	457	458	878	878	878	878	878	878	459	593	459	593	
ZERO VOLTAGE SWITCH	V_{DROM} (V)													
		100												
		200	T4127B	T4126B							T6407B	T6406B	T6417B	T6416B
		400	T4127D	T4126D							T6407D	T6406D	T6417D	T6416D
		450												
		600	T4127M	T4126M							T6407M	T6406M	T6417M	T6416M
I_{GT} (mA)														
	I+, III+									45	45	45	45	
V_{GT} (V)														
	I+, III+									1.5	1.5	1.5	1.5	
	File No.	406	406							406	406	406	406	
400-HZ OPERATION	I_T (RMS)													
	V_{DROM} (V)	200												
		400									T6405B	T6404B	T6415B	T6414B
											T6405D	T6404D	T6415D	T6414D
	I_{GT} (mA)													
		I+, III-									80	80	80	80
	I-, III+									120	120	120	120	
V_{GT} (V)														
	All Modes									3	3	3	3	
	File No.									487	487	487	487	

RCA Triacs		 J-1 Isolated Stud	 AA	 BB	 CC	 DD Stud	 EE Isolated Stud							
STANDARD	I_T (RMS)	30A	40A	30A	40A	30A	40A	60A	80A	60A	80A			
	I_{TSM} (60 Hz)	300A	300A	300A	300A	300A	300A	600A	850A	600A	850A			
	V_{DROM} (V)	100												
		200	T6421B	T6420B	T6431B	T6430B	T6441B	T6440B	T6451B	T6450B	T8411B	T8410B	T8421B	T8420B
		400	T6421D	T6420D	T6431D	T6430D	T6441D	T6440D	T6451D	T6450D	T8411D	T8410D	T8421D	T8420D
		450												
		600	T6421M	T6420M	T6431M	T6430M	T6441M	T6440M	T6451M	T6450M	T8411M	T8410M	T8421M	T8420M
		800		T6420N		T6430N		T6440N		T6450N				
	I_{GT} (mA)													
		I+, III-	50	50	50	50	50	50	50	50	75	75	75	75
	I-, III+	80	80	80	80	80	80	80	80	150	150	150	15	
V_{GT} (V)														
	All Modes	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.8	2.5	2.8	2.5	
	File No.	459	593	878	878	878	878	878	878	725	894	725	894	
ZERO VOLTAGE SWITCH	V_{DROM} (V)													
		100												
		200	T6427B	T6426B										
		400	T6427D	T6426D										
		450												
		600	T427M	T6426M										
I_{GT} (mA)														
	I+, III+	45	45											
V_{GT} (V)														
	I+, III+	1.5	1.5											
	File No.	406	406											

Application Information

Triacs

Current I _T (RMS) - A	Voltage Range - V	Package	Series	Typical Applications
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LOW-CURRENT SENSITIVE-GATE

1.6 - 2.5	100-400	Mod. TO-5 & Mod. TO-5 w Rad.	T2300 T2310 T2301 T2311 T2302 T2312	IC Control Circuit to Power Control
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GENERAL PURPOSE

Current (A)	Voltage (V)	Package	Series	Typical Applications
1.9	100-600	Mod. TO-5 w Rad.	T2313	General Purpose AC Power Switching <ul style="list-style-type: none"> ■ Light Control ■ Motor Control—Static & Speed ■ Heat/Comfort Control ■ Solid State Static Switching ■ Three Phase Power Control
2.5	600	Mod. TO-5	2N5757	
3.3	200-400	TO-66 w Rad.	T2710	
6	200-400	TO-220AB (VERSAWATT)	T2500	
6	200-400	TO-66	T2700	
6	200-500	TO-220AB (VERSAWATT)	T2801	
8	100-400	TO-220AB (VERSAWATT)	T2850	
8	200-600	TO-220AB (VERSAWATT)	T2800	
8	200-600	TO-220AB (VERSAWATT)	T2802	
10	200-600	Press-Fit	2N5568 T4101	
10	200-600	Stud	2N5570 T4111	
10	200-600	Isolated-Stud	T4121	
10	200-600	PF, Flex. Id, Encap. Iso-stud	T4131	
10	200-600	PF, Isolated on TO-3 Flge.	T4141	
10	200-600	PF, Flex. Id, Encap. Iso-TO-3 Flge.	T4151	
15	200-600	Press-Fit	2N5572 T4100	
15	200-600	Stud	2N5574 T4110	
15	200-600	Isolated-Stud	T4120	
15	200-600	PF, Flex. Id, Encap. Iso-stud	T4130	
15	200-600	PF, Isolated on TO-3 Flge.	T4140	
15	200-600	PF, Flex. Id, Encap. Iso-TO-3 Flge.	T4150	
15	200-600	TO-66	T4700	
30	200-600	Press-Fit	T6401	
30	200-600	Stud	T6411	
30	200-600	Isolated-Stud	T6421	
30	200-600	PF, Flex. Id, Encap. Iso-stud	T6431	
30	200-600	PF, Isolated on TO-3 Flge.	T6441	
30	200-600	PF, Flex. Id, Encap. Iso-TO-3 Flge.	T6451	
40	200-800	Press-Fit	2N5443 T6400	
40	200-800	Stud	2N5446 T6410	
40	200-800	Isolated-Stud	T6420	
40	200-800	PF, Flex. Id, Encap. Iso-stud	T6430	
40	200-800	PF, Isolated on TO-3 Flge.	T6440	
40	200-800	PF, Flex. Id, Encap. Iso-TO-3 Flge.	T6450	
60	200-600	"Overmolded" Stud	T8411	
60	200-600	"Overmolded" Iso-stud	T8421	
80	200-600	"Overmolded" Stud	T8410	
80	200-600	"Overmolded" Iso-stud	T8420	

400 Hz

Current (A)	Voltage (V)	Package	Series	Typical Applications
0.5	200-400	TO-5	T2304 T2305	Airborne-Type Equipment and 400-Hz Applications Requiring High Commutating dv/dt <ul style="list-style-type: none"> ■ Motor Starters
6	200-400	Press-Fit	T4105	
6	200-400	Stud ▲	T4115	
10	200-400	Press-Fit	T4104	
10	200-400	Stud ▲	T4114	
15	200-400	Press-Fit	T4103	
15	200-400	Stud ▲	T4113	
25	200-400	Press-Fit	T6405	
25	200-400	Stud ▲	T6415	
40	200-400	Press-Fit	T6404	
40	200-400	Stud ▲	T6414	

▲ On request, isolated-stud package types are available.

ZERO-VOLTAGE SWITCHING

Triacs in most series are characterized for applications utilizing zero-voltage switching with RCA-CA3058, CA3059, and CA3079 IC triggering circuits — see product matrix for types in each series.
 For types not listed, contact your RCA representative.

TRIACS (continued)

RCA TYPE	Current			Package (See p.28)	Voltage V _{DRM} V	Temp. Range Operating °C	Max. Gate Trigger Current I _{GT} -mA Modes				Critical Rate of Rise of: Commutation Voltage dv/dt - V/μs			Off-State Voltage dv/dt - V/μs			Thermal Resistance R _{θJC} °C/W
	I _T (RMS) A	I _{TSM} A	Temp., T _C °C				I+	III-	I-	III+	Min.	Typ.	T _C -°C	Min.	Typ.	T _C -°C	

GENERAL-PURPOSE TRIACS (continued)

T64 types (continued)

T6411B	30	300	60	H-1	200	-65 to 100	50	50	80	80	3	20	60	40	200	100	0.9
T6411D	30	300	60	H-1	400	-65 to 100	50	50	80	80	3	20	60	25	150	100	0.9
T6411M	30	300	60	H-1	600	-65 to 100	50	50	80	80	3	20	60	20	100	100	0.9
T6421B	30	300	55	J-1	200	-65 to 100	50	50	80	80	3	20	55	40	200	100	1
T6421D	30	300	55	J-1	400	-65 to 100	50	50	80	80	3	20	55	25	150	100	1
T6421M	30	300	55	J-1	600	-65 to 100	50	50	80	80	3	20	55	20	100	100	1
2N5441	40	300	70	G-1	200	-65 to 110	50	50	80	80	5	30	70	50	200	110	0.8
2N5442	40	300	70	G-1	400	-65 to 110	50	50	80	80	5	30	70	30	150	110	0.8
2N5443	40	300	70	G-1	600	-65 to 110	50	50	80	80	5	30	70	20	100	110	0.8
T6400N	40	300	70	G-1	800	-65 to 110	50	50	80	80	5	30	70	10	75	110	0.8
2N5444	40	300	65	H-1	200	-65 to 110	50	50	80	80	5	30	65	50	200	110	0.9
2N5445	40	300	65	H-1	400	-65 to 110	50	50	80	80	5	30	65	30	150	110	0.9
2N5446	40	300	65	H-1	600	-65 to 110	50	50	80	80	5	30	65	20	100	110	0.9
T6410N	40	300	65	H-1	800	-65 to 110	50	50	80	80	5	30	65	10	75	110	0.9
T6420B	40	300	60	J-1	200	-65 to 110	50	50	80	80	5	30	60	50	200	110	1
T6420D	40	300	60	J-1	400	-65 to 110	50	50	80	80	5	30	60	30	150	110	1
T6420M	40	300	60	J-1	600	-65 to 110	50	50	80	80	5	30	60	20	100	110	1
T6420N	40	300	60	J-1	800	-65 to 110	50	50	80	80	5	30	60	10	75	110	1
T6431B	30	300	55	AA	200	-65 to 100	50	50	80	80	3	20	55	40	200	100	1
T6431D	30	300	55	AA	400	-65 to 100	50	50	80	80	3	20	55	25	150	100	1
T6431M	30	300	55	AA	600	-65 to 100	50	50	80	80	3	20	55	20	100	100	1
T6441B	30	300	55	BB	200	-65 to 100	50	50	80	80	3	20	55	40	200	100	1
T6441D	30	300	55	BB	400	-65 to 100	50	50	80	80	3	20	55	25	150	100	1
T6441M	30	300	55	BB	600	-65 to 100	50	50	80	80	3	20	55	20	100	100	1
T6451B	30	300	55	CC	200	-65 to 100	50	50	80	80	3	20	55	40	200	100	1
T6451D	30	300	55	CC	400	-65 to 100	50	50	80	80	3	20	55	25	150	100	1
T6451M	30	300	55	CC	600	-65 to 100	50	50	80	80	3	20	55	20	100	100	1
T6430B	40	300	60	AA	200	-65 to 110	50	50	80	80	5	30	60	50	200	110	1
T6430D	40	300	60	AA	400	-65 to 110	50	50	80	80	5	30	60	30	150	110	1
T6430M	40	300	60	AA	600	-65 to 110	50	50	80	80	5	30	60	20	100	110	1
T6430N	40	300	60	AA	800	-65 to 110	50	50	80	80	5	30	60	10	75	110	1
T6440B	40	300	60	BB	200	-65 to 110	50	50	80	80	5	30	60	50	200	110	1
T6440D	40	300	60	BB	400	-65 to 110	50	50	80	80	5	30	60	30	150	110	1
T6440M	40	300	60	BB	600	-65 to 110	50	50	80	80	5	30	60	20	100	110	1
T6440N	40	300	60	BB	800	-65 to 110	50	50	80	80	5	30	60	10	75	110	1
T6450B	40	300	60	CC	200	-65 to 110	50	50	80	80	5	30	60	50	200	110	1
T6450D	40	300	60	CC	400	-65 to 110	50	50	80	80	5	30	60	30	150	110	1
T6450M	40	300	60	CC	600	-65 to 110	50	50	80	80	5	30	60	20	100	110	1
T6450N	40	300	60	CC	800	-65 to 110	50	50	80	80	5	30	60	10	75	110	1