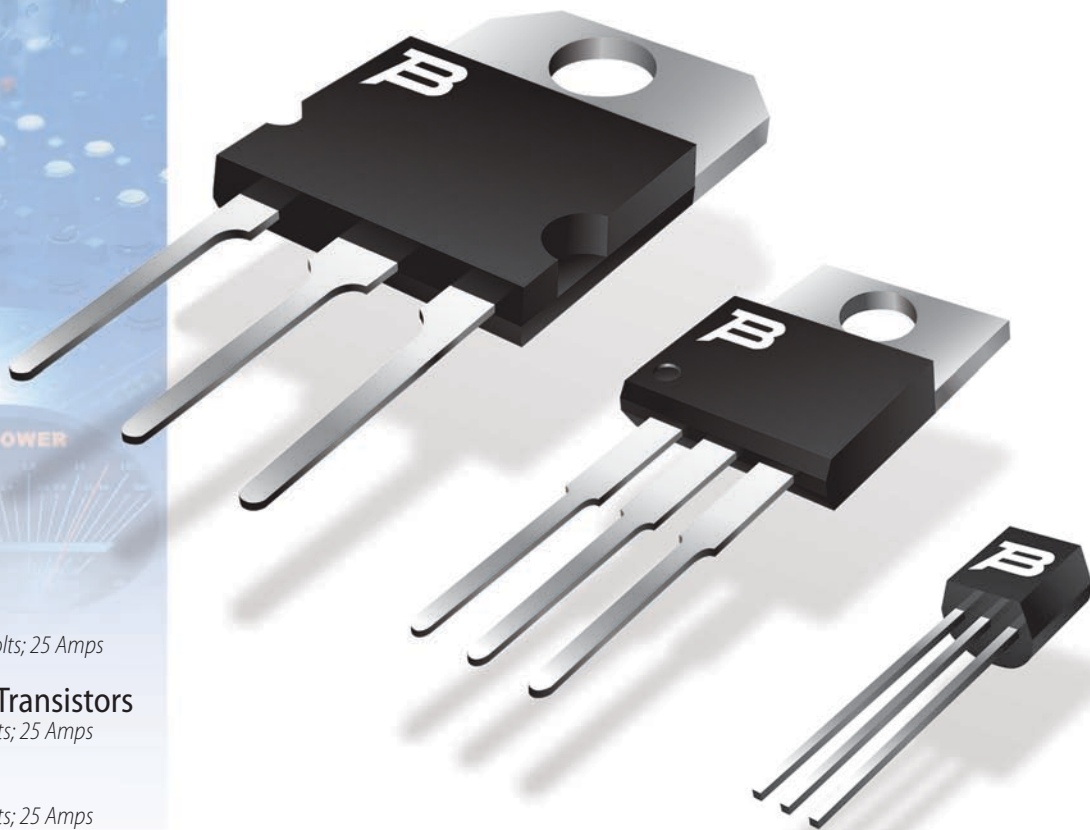


Bourns® Power Industry Standard Transistors & Thyristors

Short Form Catalog



NPN Transistors

with ratings up to 1500 Volts; 25 Amps

NPN Darlington Transistors

with ratings up to 400 Volts; 25 Amps

PNP Transistors

with ratings up to 120 Volts; 25 Amps

Silicon Controlled Rectifiers

(SCR) with ratings up 800 Volts / Irms 12 Amps

Triacs

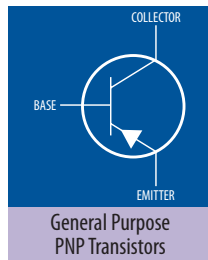
rated to 800 Volts / 25 Amps

Supplied in Industry Standard

TO-220, SOT-93 & TO-92 packages

Transistors & Darlingtons

General Purpose PNP Transistors

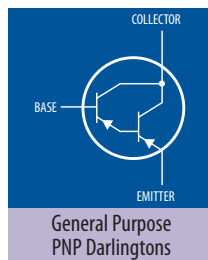


Applications

- Power amplifiers
- Switching regulators
- Lamp control
- Portable equipment
- Power management

Device Number	I _C Continuous (A)	V _{CEO} (V)	P _{tot} TC=25 °C (W)	h _{FE}		Package	Complementary
				Minimum @ I _C (A)			
TIP30C	-1	100	30	15	-1	TO-220	TIP29C
BD240C	-2	100	30	15	-1	TO-220	BD239C
TIPP32C	-2	100	0.8	10	-2	TO-92	TIPP31C
BD242B	-3	80	40	10	-3	TO-220	BD241B
BD242C	-3	100	40	10	-3	TO-220	BD241C
TIP32B	-4	80	40	10	-3	TO-220	TIP31B
TIP32C	-4	100	40	10	-3	TO-220	TIP31C
BD540C	-5	100	45	12	-3	TO-220	BD539C
BD244B	-6	80	65	15	-3	TO-220	BD243B
BD244C	-6	100	65	15	-3	TO-220	BD243C
TIP42B	-6	80	65	15	-3	TO-220	TIP41B
TIP42C	-6	100	65	15	-3	TO-220	TIP41C
BD544C	-8	100	70	15	-3	TO-220	BD543C
TIP34B	-10	80	80	20	-3	SOT-93	TIP33B
TIP34C	-10	100	80	20	-3	SOT-93	TIP33C
BD744C	-15	100	90	5	-15	TO-220	BD743C
TIP2955	-15	70	90	5	-10	SOT-93	TIP3055
BD250B	-25	80	125	5	-25	SOT-93	BD249B
BD250C	-25	100	125	5	-25	SOT-93	BD249C
TIP36B	-25	80	125	10	-15	SOT-93	TIP35B
TIP36C	-25	100	125	10	-15	SOT-93	TIP35C

General Purpose PNP Darlingtons

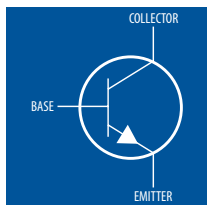


Applications

- Antilock braking systems
- Stepper motor control
- Power amplifiers
- Logic level power management

Device Number	I _C Continuous (A)	V _{CEO} (V)	P _{tot} TC=25 °C (W)	h _{FE}		Package	Complementary
				Minimum @ I _C (A)			
TIPP115	-2	60	0.8	500	-2	TO-92	TIPP110
TIPP116	-2	80	0.8	500	-2	TO-92	TIPP111
TIPP117	-2	100	0.8	500	-2	TO-92	TIPP112
BDW54C	-4	100	40	100	-4	SOT-93	BDW53C
BDW54D	-4	120	40	100	-4	SOT-93	BDW53D
TIP117	-4	100	50	500	-2	TO-220	TIP112
TIP127	-5	100	65	1000	-3	TO-220	TIP122
BDW64C	-6	100	60	100	-6	TO-220	BDW63C
BDW64D	-6	120	60	100	-6	TO-220	BDW63D
BD646	-8	60	62.5	750	-3	TO-220	BD645
BD648	-8	80	62.5	750	-3	TO-220	BD647
BD650	-8	100	62.5	750	-3	TO-220	BD649
BD652	-8	120	62.5	750	-3	TO-220	BD651
BDW74C	-8	100	80	100	-8	TO-220	BDW73C
BDW74D	-8	120	80	100	-8	TO-220	BDW73D
TIP135	-8	60	70	1000	-4	TO-220	TIP130
TIP136	-8	80	70	1000	-4	TO-220	TIP131
TIP137	-8	100	70	1000	-4	TO-220	TIP132
BDX34B	-10	80	70	750	-3	TO-220	BDX33B
BDX34C	-10	100	70	750	-3	TO-220	BDX33C
BDX34D	-10	120	70	750	-3	TO-220	BDX33D
TIP147	-10	100	125	500	-10	SOT-93	TIP142
BDV64C	-12	120	125	1000	-5	SOT-93	BDV65C
BDW94B	-12	80	80	100	-10	TO-220	BDW93B
BDW94C	-12	100	80	100	-10	TO-220	BDW93C
BDW84B	-15	80	150	100	-15	SOT-93	BDW83B
BDW84C	-15	100	150	100	-15	SOT-93	BDW83C
BDW84D	-15	120	150	100	-15	SOT-93	BDW83D

General Purpose NPN Transistors



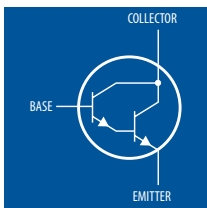
General Purpose NPN Transistors

Applications

- Power amplifiers
- Switching regulators
- Lamp inverters
- Portable equipment
- Power management

Device Number	I _C Continuous (A)	V _{CEO} (V)	P _{tot} TC=25 °C (W)	h _{FE}		Package	Complementary
				Minimum @ I _C (A)			
TIP29C	1	100	30	15	1	TO-220	TIP30C
BD239C	2	100	30	15	1	TO-220	BD240C
TIPP31C	2	100	0.8	10	2	TO-92	TIPP32C
BD241B	3	80	40	10	3	TO-220	BD242B
BD241C	3	100	40	10	3	TO-220	BD242C
TIP31B	3	80	40	10	3	TO-220	TIP32B
TIP31C	3	100	40	10	3	TO-220	TIP32C
BD539C	5	100	45	12	3	TO-220	BD540C
BD243B	6	80	65	15	3	TO-220	BD244B
BD243C	6	100	65	15	3	TO-220	BD244C
TIP41B	6	80	65	15	3	TO-220	TIP42B
TIP41C	6	100	65	15	3	TO-220	TIP42C
BD543C	8	100	70	15	5	TO-220	BD544C
TIP33B	10	80	80	20	3	SOT-93	TIP34B
TIP33C	10	100	80	20	3	SOT-93	TIP34C
BD743C	15	100	90	5	15	TO-220	BD744C
TIP3055	15	70	90	5	10	SOT-93	TIP2955
BD249B	25	80	125	5	25	SOT-93	BD250B
BD249C	25	100	125	5	25	SOT-93	BD250C
TIP35B	25	80	125	10	15	SOT-93	TIP36B
TIP35C	25	100	125	10	15	SOT-93	TIP36C

General Purpose NPN Darlingtons



General Purpose NPN Darlingtons

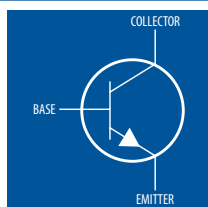
Applications

- Antilock braking systems
- Stepper motor control
- Power amplifiers
- Logic level power management

Device Number	I _C Continuous (A)	V _{CEO} (V)	P _{tot} TC=25 °C (W)	h _{FE}		Package	Complementary
				Minimum @ I _C (A)			
TIPP110	2	60	0.8	500	2	TO-92	TIPP115
TIPP111	2	80	0.8	500	2	TO-92	TIPP116
TIPP112	2	100	0.8	500	2	TO-92	TIPP117
BDW53C	4	100	40	100	4	TO-220	BDW54C
BDW53D	4	120	40	100	4	TO-220	BDW54D
TIP112	4	100	50	500	2	TO-220	TIP117
TIP122	5	100	65	1000	3	TO-220	TIP127
BDW63C	6	100	60	100	6	TO-220	BDW64C
BDW63D	6	120	60	100	6	TO-220	BDW64D
BD645	8	60	62.5	750	3	TO-220	BD646
BD647	8	80	62.5	750	3	TO-220	BD648
BD649	8	100	62.5	750	3	TO-220	BD650
BD651	8	120	62.5	750	3	TO-220	BD652
BDW73C	8	100	80	100	8	TO-220	BDW74C
BDW73D	8	120	80	100	8	TO-220	BDW74D
TIP130	8	60	70	1000	4	TO-220	TIP135
TIP131	8	80	70	1000	4	TO-220	TIP136
TIP132	8	100	70	1000	4	TO-220	TIP137
BDX33B	10	80	70	750	3	TO-220	BDX34B
BDX33C	10	100	70	750	3	TO-220	BDX34C
BDX33D	10	120	70	750	3	TO-220	BDX34D
TIP142	10	100	125	500	10	SOT-93	TIP147
BDV65C	12	120	125	1000	5	SOT-93	BDV64C
BDW93B	12	80	80	100	10	TO-220	BDW94B
BDW93C	12	100	80	100	10	TO-220	BDW94C
BDW83B	15	80	150	100	15	SOT-93	BDW84B
BDW83C	15	100	150	100	15	SOT-93	BDW84C
BDW83D	15	120	150	100	15	SOT-93	BDW84D

Transistors & Darlingtons

NPN Ignition Darlingtons



NPN Darlingtons

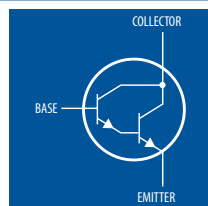
Applications

Petrol engine
electronic ignition

Gaming machine
lamp control

Device Number	I _C Continuous (A)	V _{CEO} (V)	V _{CEO} (V)	V _{CE} (Sat)		Resistive-load switching t _f		Inductive-load switching t _{fi}		Package
				Max (V)	@ I _C (A)	Max. (ns)	@ I _C (A)	Max. (ns)	@ I _C (A)	
TIP150	7	300	300	2	5					TO-220
TIP151	7	350	350	2	5					TO-220
TIP152	7	400	400	2	5					TO-220
TIP160	10	320	320	2.9	10	2600	6.5			SOT-93
TIP161	10	350	350	2.9	10	2600	6.5			SOT-93
TIP162	10	380	380	2.9	10	2600	6.5			SOT-93
TIPL790	10	120	150	2	10			400	10	TO-220
TIPL790A	10	150	200	2	10			400	10	TO-220

NPN Switching Transistors



NPN Switching Transistors

Applications

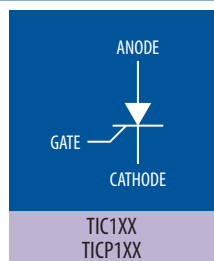
SMP flyback converters

Electronic ballast

Electronic transformers

Device Number	I _C Continuous (A)	V _{CEO} (V)	V _{CEO} (V)	V _{CE} (Sat)		Resistive-load switching t _f		Inductive-load switching t _{fi}		Package
				Max. (V)	@ I _C (A)	Max. (ns)	@ I _C (A)	Max. (ns)	@ I _C (A)	
TIP49	1	350	450	1	1					TO-220
TIP50	1	400	500	1	1					TO-220
BUX84	2	400	800	1	1	200 (typ)	1			TO-220
BUX85	2	450	1000	1	1	200 (typ)	1			TO-220
TIPL760	4	400	850	2.5	4			250	4	TO-220
TIPL760A	4	450	1000	2.5	4			250	4	TO-220
TIPL760C	4	550	1200	2.5	3			250	3	TO-220
TIPL791	4	400	850	2.5	4			100	4	TO-220
TIPL791A	4	450	1000	2.5	4			100	4	TO-220
BU426	6	375	800	3	4	150 (typ)	2.5			SOT-93
BU426A	6	400	900	3	4	150 (typ)	2.5			SOT-93
BU406 7	7	200	400	1	5					TO-220
BUV47	9	400	850	3	8	800	5	400	5	SOT-93
BUV47A	9	450	1000	3	8	800	5	400	5	SOT-93
TIPL765	10	400	850	2.5	10			200	10	SOT-93
TIPL765A	10	450	1000	2.5	10			200	10	SOT-93
BUV48	15	400	850	5	15	800	10	400	10	SOT-93
BUV48A	15	450	1000	5	12	800	10	400	10	SOT-93

Silicon Controlled Rectifiers

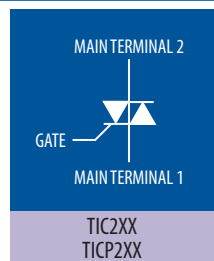


Applications

- Power supply crowbar protection
- BAS ignition
- Voltage regulators
- Camera flash
- Electronic hand tool speed control

Device Number	V _{DRM} (V)	I _{T(RMS)} (A)	I _{TSM} (A)	dv/dt typ (V/μs)	V _{GT(MAX.)} (V)	I _{GT(MAX.)} (mA)	Package
TICP106D	400	2	15	10	1	0.2	TO-92
TICP106M	600	2	15	10	1	0.2	TO-92
TICP107D	400	1	15	-	1	0.2	TO-92
TICP107M	600	1	15	-	1	0.2	TO-92
TIC106D	400	5	30	10	1	0.2	TO-220
TIP106M	600	5	30	10	1	0.2	TO-220
TIP106S	700	5	30	10	1	0.2	TO-220
TIP106N	800	5	30	10	1	0.2	TO-220
TIC108D	400	5	20	80	1	1	TO-220
TIC108M	600	5	20	80	1	1	TO-220
TIC108S	700	5	20	80	1	1	TO-220
TIC108N	800	5	20	80	1	1	TO-220
TIC116D	400	8	80	100	1.5	20	TO-220
TIC116M	600	8	80	100	1.5	20	TO-220
TIC116S	700	8	80	100	1.5	20	TO-220
TIC116N	800	8	80	100	1.5	20	TO-220
TIC126D	400	12	100	100	1.5	20	TO-220
TIC126M	600	12	100	100	1.5	20	TO-220
TIC126S	700	12	100	100	1.5	20	TO-220
TIC126N	800	12	100	100	1.5	20	TO-220

Triacs



Applications

- AC motor speed control
- Light dimmers
- Heating element temperature control
- Gaming machine rotation control

Device Number	V _{DRM} (V)	I _{T(RMS)} (A)	I _{TSM} (A)	dv/dt (V/μs)	dv/dt(C) min. (V/μs)	I _{GT(MAX.)} (mA)				V _{GT(MAX.)} (V)		Package
						MT2 + G	MT2 + G	MT2 - G	MT2 - G	MT2+ ++ G	MT2 - G	
TICP206D	400	1.5	12	-	-	8	8	8	10	2.5	2.5	TO-92
TICP206M	600	1.5	12	-	-	8	8	8	10	2.5	2.5	TO-92
TIC201D	400	2.5	14	50	2	5	8	10	25	2.5	-	TO-220
TIC201M	600	2.5	14	50	2	5	8	10	25	2.5	-	TO-220
TIC201S	700	2.5	14	50	2	5	8	10	25	2.5	-	TO-220
TIC201N	800	2.5	14	50	2	5	8	10	25	2.5	-	TO-220
TIC206D	400	4	30	50	1	5	5	5	10	2	2	TO-220
TIC206M	600	4	30	50	1	5	5	5	10	2	2	TO-220
TIC206S	700	4	30	50	1	5	5	5	10	2	2	TO-220
TIC206N	800	4	30	50	1	5	5	5	10	2	2	TO-220
TIC216D	400	6	70	50	5	5	5	5	10	2.2	3	TO-220
TIC216M	600	6	70	50	5	5	5	5	10	2.2	3	TO-220
TIC216S	700	6	70	50	5	5	5	5	10	2.2	3	TO-220
TIC216N	800	6	70	50	5	5	5	5	10	2.2	3	TO-220
TIC225D	400	8	70	50	1	5	20	10	30	2	2	TO-220
TIC225M	600	8	70	50	1	5	20	10	30	2	2	TO-220
TIC225S	700	8	70	50	1	5	20	10	30	2	2	TO-220
TIC225N	800	8	70	50	1	5	20	10	30	2	2	TO-220
TIC226D	400	8	80	100	5	50	50	50	-	2	2	TO-220
TIC226M	600	8	80	100	5	50	50	50	-	2	2	TO-220
TIC226S	700	8	80	100	5	50	50	50	-	2	2	TO-220
TIC226N	800	8	80	100	5	50	50	50	-	2	2	TO-220
TIC236D	400	12	100	400	1.2	50	50	50	-	2	2	TO-220
TIC236M	600	12	100	400	1.2	50	50	50	-	2	2	TO-220
TIC236S	700	12	100	400	1.2	50	50	50	-	2	2	TO-220
TIC236N	800	12	100	400	1.2	50	50	50	-	2	2	TO-220
TIC246D	400	16	125	400	1.2	50	50	50	-	2	2	TO-220
TIC246M	600	16	125	400	1.2	50	50	50	-	2	2	TO-220
TIC246S	700	16	125	400	1.2	50	50	50	-	2	2	TO-220
TIC246N	800	16	125	400	1.2	50	50	50	-	2	2	TO-220
TIC253D	400	20	150	450	1 typ.	50	50	50	-	2	2	SOT-93
TIC253M	600	20	150	450	1 typ.	50	50	50	-	2	2	SOT-93
TIC253S	700	20	150	450	1 typ.	50	50	50	-	2	2	SOT-93
TIC253N	800	20	150	450	1 typ.	50	50	50	-	2	2	SOT-93
TIC256D	400	20	150	450	1 typ.	50	50	50	-	2	2	TO-220
TIC256M	600	20	150	450	1 typ.	50	50	50	-	2	2	TO-220
TIC256S	700	20	150	450	1 typ.	50	50	50	-	2	2	TO-220
TIC256N	800	20	150	450	1 typ.	50	50	50	-	2	2	TO-220
TIC263D	400	25	175	450	1 typ.	50	50	50	-	2	2	SOT-93
TIC263M	600	25	175	450	1 typ.	50	50	50	-	2	2	SOT-93
TIC263S	700	25	175	450	1 typ.	50	50	50	-	2	2	SOT-93
TIC263N	800	25	175	450	1 typ.	50	50	50	-	2	2	SOT-93
TIC266D	400	25	175	450	1 typ.	50	50	50	-	2	2	TO-220
TIC266M	600	25	175	450	1 typ.	50	50	50	-	2	2	TO-220
TIC266S	700	25	175	450	1 typ.	50	50	50	-	2	2	TO-220
TIC266N	800	25	175	450	1 typ.	50	50	50	-	2	2	TO-220

Transistor & Darlington Cross Reference

Industry Part No.	Recommended Bourns Equivalent	Industry Part No.	Recommended Bourns Equivalent	Nearest Bourns Replacement	Industry Part No.	Recommended Bourns Equivalent	Nearest Bourns Replacement	Industry Part No.	Recommended Bourns Equivalent
BD239	BD239C	BD545	BD545C		BDW74B	BDW74C		TIP33	TIP33C
BD239A	BD239C	BD545A	BD545C		BDW74C	BDW74C		TIP33A	TIP33C
BD239B	BD239C	BD545B	BD545C		BDW74D	BDW74D		TIP33B	TIP33C
BD239C	BD239C	BD545C	BD545C		BDW83	BDW83C		TIP33C	TIP33C
BD239D	BD239D	BD546	BD546C		BDW83A	BDW83C		TIP34	TIP34C
BD239E	BD239E	BD546A	BD546C		BDW83B	BDW83C		TIP34A	TIP34C
BD239F	BD239F	BD546B	BD546C		BDW83C	BDW83C		TIP34B	TIP34C
BD240	BD240C	BD546C	BD546C		BDW83D	BDW83D		TIP34C	TIP34C
BD240A	BD240C	BD645	BD645		BDW84	BDW84C		TIP35	TIP35C
BD240B	BD240C	BD646	BD646		BDW84A	BDW84C		TIP35A	TIP35C
BD240C	BD240C	BD647	BD647		BDW84B	BDW84C		TIP35B	TIP35C
BD241	BD241C	BD648	BD648		BDW84C	BDW84C		TIP35C	TIP35C
BD241A	BD241C	BD649	BD649		BDW84D	BDW84D		TIP36	TIP36C
BD241B	BD241C	BD650	BD650		BDW93	BDW93C		TIP36A	TIP36C
BD241C	BD241C	BD651	BD651		BDW93A	BDW93C		TIP36B	TIP36C
BD241D	BD241D	BD652	BD652		BDW93B	BDW93C		TIP36C	TIP36C
BD241E	BD241E	BD743	BD743C		BDW93C	BDW93C		TIP41	TIP41C
BD241F	BD241F	BD743A	BD743C		BDW94	BDW94C		TIP41A	TIP41C
BD242	BD242C	BD743B	BD743C		BDW94A	BDW94C		TIP41B	TIP41C
BD242A	BD242C	BD743C	BD743C		BDW94B	BDW94C		TIP41C	TIP41C
BD242B	BD242C	BD744	BD744C		BDW94C	BDW94C		TIP42	TIP42C
BD242C	BD242C	BD744A	BD744C		BDX33	BDX33C		TIP42A	TIP42C
BD243	BD243C	BD744B	BD744C		BDX33A	BDX33C		TIP42B	TIP42C
BD243A	BD243C	BD744C	BD744C		BDX33B	BDX33C		TIP42C	TIP42C
BD243B	BD243C	BD745	BD745		BDX33C	BDX33C		TIP47	TIP47
BD243C	BD243C	BD745A	TIP35C		BDX33D	BDX33D		TIP48	TIP48
BD244	BD244C	BD745B	TIP35C		BDX34	BDX34C		TIP49	TIP49
BD244A	BD244C	BD745C	TIP35C		BDX34A	BDX34C		TIP50	TIP50
BD244B	BD244C	BD746	TIP36C		BDX34B	BDX34C		TIPL760	TIPL760
BD244C	BD244C	BD746A	TIP36C		BDX34C	BDX34C		TIPL760A	TIPL760A
BD245	BD245C	BD746B	TIP36C		BDX34D	BDX34D		TIPL760B	TIPL760C
BD245A	BD245C	BD746C	TIP36C		BDX53	BDX53C		TIPL760C	TIPL760C
BD245B	BD245C	BD808		BD544A	BDX53A	BDX53C		TIPL761	TIPL761A
BD245C	BD245C	BD810		BD544B	BDX53B	BDX53C		TIPL761A	TIPL761A
BD246	BD246C	BD895	BD895		BDX53C	BDX53C		TIPL761B	TIPL761C
BD246A	BD246C	BD895A	BD895A		BDX54	BDX54C		TIPL761C	TIPL761C
BD246B	BD246C	BD896	BD896		BDX54A	BDX54C		TIPL762	TIPL762
BD246C	BD246C	BD896A	BD896A		BDX54B	BDX54C		TIPL762A	TIPL762A
BD249	BD249	BD897	BD897		BDX54C	BDX54C		TIPL765	TIPL765
BD249A	BD249A	BD897A	BD897A		BU406	BU406		TIPL765A	TIPL765A
BD249B	BD249B	BD898	BD898		BU407	BU407		TIPL770	TIPL770
BD249C	BD249C	BD898A	BD898A		BU426	BU426		TIPL790	TIPL790
BD250	BD250C	BD899	BD899		BU426A	BU426A		TIPL790A	TIPL790A
BD250A	BD250C	BD899A	BD899A		BU911		TIP152	TIPL791	TIPL791
BD250B	BD250C	BD900	BD900		BUH51		BUL791	TIPL791A	TIPL791A
BD250C	BD250C	BD900A	BD900A		BUL146		BUL791	TIPP110	TIPP110
BD539	BD539C	BD901	BD901		BUL381		TIPL760A	TIPP111	TIPP111
BD539A	BD539C	BD902	BD902		BUL770	BUL770		TIPP112	TIPP112
BD539B	BD539C	BD909		BD743C	BUL791	BUL791		TIPP115	TIPP115
BD539C	BD539C	BD910		BD744C	BUT11	BUT11		TIPP116	TIPP116
BD539D	BD539D	BD911		BD743C	BUV46KK		BUL770	TIPP117	TIPP117
BD540	BD540C	BD912		BD744C	BUV47	BUV47		TIPP31	TIPP31
BD540A	BD540C	BDW73	BDW73C		BUV47A	BUV47A		TIPP31A	TIPP31A
BD540B	BD540C	BDW73A	BDW73C		BUV48	BUV48		TIPP31B	TIPP31B
BD540C	BD540C	BDW73B	BDW73C		BUV48A	BUV48A		TIPP31C	TIPP31C
BD543	BD543C	BDW73C	BDW73C		BUX84	BUX84		TIPP32	TIPP32
BD543A	BD543C	BDW73D	BDW73D		BUX85	BUX85		TIPP32A	TIPP32A
BD543B	BD543C	BDW74	BDW74C		TIP32A	TIP32C		TIPP32B	TIPP32B
BD543C	BD543C	BDW74A	BDW74C		TIP32B	TIP32C			
					TIP32C	TIP32C			

Thyristor Cross Reference

Industry Part No.	Recommended Bourns Equivalent	Nearest Bourns Replacement	Industry Part No.	Recommended Bourns Equivalent	Nearest Bourns Replacement	Industry Part No.	Recommended Bourns Equivalent	Nearest Bourns Replacement
2N6071A		TIC206D	S0402MH		TIC106M	TIC246N	TIC246N	
2N6073A		TIC206D	S0402NH		TIC106N	TIC246S	TIC246S	
BT136-500D		TIC206M	S0406DH		TIC108D	TIC253D	TIC253D	
BT136-600D		TIC206M	S0406MH		TIC108M	TIC253M	TIC253M	
BT137-500G		TIC226M	S0406NH		TIC108N	TIC253N	TIC253N	
BT137-600G		TIC226M	T405-400T		TIC206D	TIC253S	TIC253S	
BT137-800G		TIC226N	T405-600T		TIC206M	TIC256D	TIC256D	
BT138-500G		TIC236M	T405-700T		TIC206S	TIC256M	TIC256M	
BT138-600G		TIC236M	TIC106D	TIC106D		TIC256N	TIC256N	
BT138-800G		TIC236N	TIC106M	TIC106M		TIC256S	TIC256S	
BT139-500G		TIC246M	TIC106N	TIC106N		TIC263D	TIC263D	
BT139-600G		TIC246M	TIC106S	TIC106S		TIC263M	TIC263M	
BT139-800G		TIC246N	TIC108D	TIC108D		TIC263N	TIC263N	
BT150-500R		TIC106M	TIC108M	TIC108M		TIC263S	TIC263S	
BT150-600R		TIC106M	TIC108N	TIC108N		TIC226D	TIC226D	
BT150-800R		TIC106N	TIC116D	TIC116D		TIC226M	TIC226M	
BTB06-400	TIC216D		TIC116M	TIC116M		TIC266N	TIC266N	
BTB06-600D	TIC216M		TIC116N	TIC116N		TIC266S	TIC266S	
BTB06-700D	TIC216S		TIC116S	TIC116S		TICP106D T	ICP106D	
BTB08-400B	TIC226D		TIC126D	TIC126D		TICP106M	TICP106M	
BTB08-600B	TIC226N		TIC126M	TIC126M		TICP206D	TICP206D	
BTB08-700B	TIC226S		TIC126N	TIC126N		TICP206M	TICP206M	
BTB08-800B	TIC226N		TIC126S	TIC126S		TYN108		TIC116D
BTB12-400B	TIC236D		TIC201D	TIC201D		TYN112		TIC126D
BTB12-600B	TIC236M		TIC201M	TIC201M		TYN208		TIC116D
BTB12-700B	TIC236S		TIC201S	TIC201S		TYN212		TIC126D
BTB12-800B	TIC236N		TIC206D	TIC206D		TYN408		TIC116D
BTB16-400B	TIC246D		TIC206M	TIC206M		TYN412		TIC126D
BTB16-600B	TIC246M		TIC206S	TIC206S		TYN608		TIC116M
BTB16-700B	TIC246S		TIC216D	TIC216D		TYN612		TIC126M
BTB16-800B	TIC246N		TIC216M	TIC216M		TYN808		TIC116N
BTB24-400B	TIC266D		TIC216S	TIC216S		TYN812		TIC126N
BTB24-600B	TIC266M		TIC225D	TIC225D		X0202DA		TICP106D
BTB24-700B		TIC266S	TIC225M	TIC225M		X0202MA		TICP106M
BTB24-800B		TIC266N	TIC225N	TIC225N		Z0109DA		TICP206D
BTB26-400B		TIC263D	TIC225S	TIC225S		Z0109MA		TICP206M
BTB26-600B		TIC263M	TIC226D	TIC226D		Z0405DE		TIC206D
BTB26-700B		TIC263S	TIC226M	TIC226M		Z0405ME		TIC206M
BTB26-800B		TIC263N	TIC226N	TIC226N		Z0405NE		TIC206N
MCR8D		TIC116D	TIC226S	TIC226S		Z0405SE		TIC206S
MCR8M		TIC116M	TIC236D	TIC236D		Z0409DE		TIC206D
MCR8N		TIC116N	TIC236M	TIC236M		Z0409ME		TIC206M
MCR12D		TIC126D	TIC236N	TIC236N		Z04099NE		TIC206N
MCR12D		TIC126M	TIC236S	TIC236S		Z0409SE		TIC206S
MCR12N		TIC126N	TIC246D	TIC246D				
S0402DH		TIC106D	TIC246M	TIC246M				



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