

Package Type		
Pkg.Type	DO35	DO41/DO15

TRIACS

Cat. No.	Rated Voltage ±5%	Package Style	P _D	Net Price
NTE5000A	2.4	DO35	½ Watt	\$1.07
NTE5002A	2.7			1.07
NTE5004A	3.0			1.04
NTE5007A	3.9			.78
NTE5009A	4.7			.78
NTE5010A	5.1			.78
NTE5011A	5.6			.78
NTE5013A	6.2			.78
NTE5014A	6.8			.78
NTE5018A	9.1			.77
NTE5019A	10.0			.78
NTE5021A	12.0			.77
NTE5022A	13.0			.78
NTE5025A	16.0			.78
NTE5043A	60.0			.78

Cat. No.	Rated Voltage ±5%	Package Style	P _D	Net Price		
NTE5069A	4.7	DO41/DO15	1 Watt	2.20		
NTE135A	5.1			.95		
NTE136A	5.6			.95		
NTE5070A	6.0			2.20		
NTE137A	6.2			.95		
NTE5071A	6.8			2.20		
NTE138A	7.5			.95		
NTE5072A	8.2			2.20		
NTE139A	9.1			.95		
NTE140A	10.0			.95		
NTE142A	12.0			.95		
NTE143A	13.0			.95		
NTE144A	14.0			.95		
NTE145A	15.0			.95		
NTE5077A	18.0			2.20		
NTE5079A	20.0			2.20		
NTE5080A	22.0			2.20		
NTE5081A	24.0			2.20		
NTE146A	27.0			.95		
NTE5084A	30.0			2.20		
NTE147A	33.0			.95		
NTE5085A	36.0			2.20		
NTE5096A	100.0			2.20		
NTE151A	110.0			1.80		
NTE5097A	120.0			2.20		
NTE5105A	200.0			2.20		
NTE5116A	5.1			—	5 Watt	2.20
NTE5119A	6.2					2.20
NTE5127A	12.0					2.20
NTE5128A	13.0					2.20
NTE5130A	15.0					2.20
NTE5131A	16.0					2.20
NTE5133A	18.0					2.20
NTE5137A	24.0	2.20				
NTE5142A	33.0	2.20				
NTE5166A	200.0	2.20				

Package Type							
Package	TO92	TO126	TO202	TO220	TO220 Isolated	TO3 Isolated Flange	TO3 Square Pack

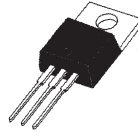
TRIACS

Cat. No.	V _{RRM} DC or Pk Volts	I _{GT} (mA)*	V _{GT} (V)	V _{FON} (V)	I _{Surge} (A)	I _{Hold} (mA)	Firing Quads	Package Style	Net Price
0.8A									
NTE5656	400	5 Max	2 Max	1.5 Max	8 Max	20 Max	All	TO92	\$2.14
NTE5657	600	5 Max	2 Max	1.5 Max	8 Max	20 Max	All	TO92	9.49
4A									
NTE5605	400	30 Max	2.5 Max	2 Max	30 Max	30 Max	I, III	TO126	3.39
NTE5629	400	3 Max	2 Max	1.6 Max	40 Max	5 Max	All	TO202	3.36
8A									
NTE5608	400	10 Max	2.5 Max	1.5 Max	80 Max	15 Max	All	TO220	3.96
NTE5638	400	10 Max	2 Max	1.6 Max	80 Max	15 Max	All	TO220 Isolated	4.73
10A									
NTE5633	200	50 Max	2.5 Max	1.65 max	100 Max	50 Max	I, II, III	TO220	4.11
NTE5635	400	50 Max	2.5 Max	1.65 max	100 Max	50 Max	I, II, III	To220	6.20
NTE5645	600	25/50 Max	2.5 Max	1.6 max	110 Max	50 Max	All	TO220 Isolated	6.08
15A									
NTE56006	400	40/75 Max	2.5 Max	1.6 Max	150 Max	40 Max	All	TO220	7.06
25A									
NTE56020	400	50/75 Max	2.5 Max	1.8 Max	200 Max	70 Max	All	TO220 Isolated	13.36
NTE56014	400	80/100 Max	2.5 Max	1.8 Max	250 Max	80 Max	All	TO3 Isolated Flange	27.56
40A									
NTE5679	600	100 Max	2.5 Max	1.8 Max	300 Max	100 Max	I, II, III	TO3 Square Pack	32.78

I_r RMS Maximum Forward Current

*I_{GT} (max) is the worst case current required to guarantee turn-on of the device.

CRYDOM



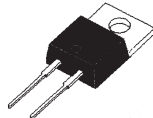
SERIES CTA/CTB06 AND CHTA/CHTB12 TRIACS CASE TYPE TO220AB

Series CTA/CTB06 - FEATURES: Suitable for general purpose AC switching. Alternistor/no snubber versions for inductive loads. Logic level available for use with micro-controllers and low level devices. IGT range 5-50 mA (Q1). V_{DRM}/V_{RMM} 400, 600, 800, 1000V. **APPLICATIONS:** Phase control, static switching, light dimming, motor speed control, kitchen equipment, power tools, dishwashers and washing machines. **High Temperature 150°C Series CHTA/CHTB12 - FEATURES:** Superior commutating performance at high temperature (di/dt)_c = 50V/μs. Ideal for most demanding applications. Alternistor/no snubber type. IGT 35 mA max. V_{DRM}/V_{RMM} 400, 600, 800V. **APPLICATIONS:** Ovens, coffee makers, cookers, light dimming, control of inductive loads, motors, and transformers.

Cat. No.	Device Type	Package Type I = Isolated, N = Non-isolated	On-State RMS Current	V_{DRM} Min. (V)	IGT Max. (mA)	I_{TSM} @60 Hz (A)	dv/dt (V/usec)	I_{DRM} @25°C Max. (mA)	V_{TM} @25°C (V)	Case Type	Net Price
CTA06-400SW	Logic Level	I	6.0A, Tc=105°C	400	10	63	40	0.005	1.55	TO-220AB	\$125.00
CTA06-600SW	Logic Level	I	6.0A, Tc=105°C	600	10	63	40	0.005	1.55	TO-220AB	131.00
CTA06-600TW	Logic Level	I	6.0A, Tc=105°C	600	5	63	20	0.005	1.55	TO-220AB	137.00
CTA06-600CW	No Snubber	I	6.0A, Tc=105°C	600	35	63	400	0.005	1.55	TO-220AB	125.00
CTA06-1000BW	No Snubber	I	6.0A, Tc=105°C	1000	50	63	1000	0.005	1.55	TO-220AB	139.00
CTA06-400B	Standard	I	6.0A, Tc=105°C	400	50	63	400	0.005	1.55	TO-220AB	107.00
CTA06-600B	Standard	I	6.0A, Tc=105°C	600	50	63	400	0.005	1.55	TO-220AB	113.00
CTA06-600C	Standard	I	6.0A, Tc=105°C	600	5	63	200	0.005	1.55	TO-220AB	119.00
CTB06-600TW	Logic Level	N	6.0A, Tc=110°C	600	25	63	20	0.005	1.55	TO-220AB	137.00
CTB06-400CW	No Snubber	N	6.0A, Tc=110°C	400	35	63	400	0.005	1.55	TO-220AB	107.00
CTB06-1000BW	No Snubber	N	6.0A, Tc=110°C	1000	50	63	1000	0.005	1.55	TO-220AB	125.00
CTB06-600C	Standard	N	6.0A, Tc=110°C	600	25	63	200	0.005	1.55	TO-220AB	107.00
CTA08-600TW	Logic Level	I	8.0A, Tc=100°C	600	5	84	20	0.005	1.55	TO-220AB	145.00
CTA08-600BW	No Snubber	I	8.0A, Tc=100°C	600	50	84	1000	0.005	1.55	TO-220AB	129.00
CTA08-600CW	No Snubber	I	8.0A, Tc=100°C	600	35	84	400	0.005	1.55	TO-220AB	132.00
CTA08-800CW	No Snubber	I	8.0A, Tc=100°C	800	35	84	400	0.005	1.55	TO-220AB	137.00
CTA08-1000BW	No Snubber	I	8.0A, Tc=100°C	1000	50	84	1000	0.005	1.55	TO-220AB	146.00
CTA08-400C	Standard	I	8.0A, Tc=100°C	400	25	84	200	0.005	1.55	TO-220AB	119.00
CTA08-600B	Standard	I	8.0A, Tc=100°C	600	50	84	400	0.005	1.55	TO-220AB	119.00
CTA08-600C	Standard	I	8.0A, Tc=100°C	600	25	84	200	0.005	1.55	TO-220AB	125.00
CTB08-600BW	No Snubber	N	8.0A, Tc=110°C	600	50	84	1000	0.005	1.55	TO-220AB	129.00
CTB08-600CW	No Snubber	N	8.0A, Tc=110°C	600	35	84	400	0.005	1.55	TO-220AB	116.00
CTB08-800BW	No Snubber	N	8.0A, Tc=110°C	800	50	84	1000	0.005	1.55	TO-220AB	120.00
CTB08-800CW	No Snubber	N	8.0A, Tc=110°C	800	35	84	400	0.005	1.55	TO-220AB	123.00
CTB08-1000BW	No Snubber	N	8.0A, Tc=110°C	1000	50	84	1000	0.005	1.55	TO-220AB	132.00
CTB08-400C	Standard	N	8.0A, Tc=110°C	400	25	84	200	0.005	1.55	TO-220AB	107.00
CTB08-600B	Standard	N	8.0A, Tc=110°C	600	50	84	400	0.005	1.55	TO-220AB	107.00
CHTA12-600	High Temperature	I	12.0A, Tc=125°C	600	50	126	300	0.005	1.55	TO-220AB	168.00
CHTA12-800	High Temperature	I	12.0A, Tc=125°C	800	50	126	300	0.005	1.55	TO-220AB	173.00
CTA12-600BW	No Snubber	I	12.0A, Tc=90°C	600	50	126	1000	0.005	1.55	TO-220AB	144.00
CTA12-800CW	No Snubber	I	12.0A, Tc=90°C	800	50	126	1000	0.005	1.55	TO-220AB	153.00
CTA12-1000BW	No Snubber	I	12.0A, Tc=90°C	1000	50	126	1000	0.005	1.55	TO-220AB	164.00
CTA12-400B	Standard	I	12.0A, Tc=90°C	400	50	126	400	0.005	1.55	TO-220AB	126.00
CTA12-600B	Standard	I	12.0A, Tc=90°C	600	50	126	400	0.005	1.55	TO-220AB	133.00
CTA12-600C	Standard	I	12.0A, Tc=90°C	600	25	126	200	0.005	1.55	TO-220AB	140.00
CTA12-800C	Standard	I	12.0A, Tc=90°C	800	25	126	200	0.005	1.55	TO-220AB	146.00
CHTB12-600	High Temperature	N	12.0A, Tc=135°C	600	50	126	300	0.005	1.55	TO-220AB	154.00
CHTB12-800	High Temperature	N	12.0A, Tc=135°C	800	50	126	300	0.005	1.55	TO-220AB	158.00
CTB12-600BW	No Snubber	N	12.0A, Tc=105°C	600	50	126	1000	0.005	1.55	TO-220AB	130.00
CTB12-600CW	No Snubber	N	12.0A, Tc=105°C	600	35	126	500	0.005	1.55	TO-220AB	133.00
CTB12-800CW	No Snubber	N	12.0A, Tc=105°C	800	35	126	500	0.005	1.55	TO-220AB	138.00
CTB12-1000BW	No Snubber	N	12.0A, Tc=105°C	1000	50	126	1000	0.005	1.55	TO-220AB	147.00
CTB12-600B	Standard	N	12.0A, Tc=105°C	600	50	126	400	0.005	1.55	TO-220AB	120.00
CTB12-600C	Standard	N	12.0A, Tc=105°C	600	25	126	200	0.005	1.55	TO-220AB	126.00
CTB12-800C	Standard	N	12.0A, Tc=105°C	800	25	126	200	0.005	1.55	TO-220AB	131.00
CTA16-400BW	No Snubber	I	16.0A, Tc=85°C	400	50	168	1000	0.005	1.55	TO-220AB	151.00
CTA16-600BW	No Snubber	I	16.0A, Tc=85°C	600	50	168	1000	0.005	1.55	TO-220AB	157.00
CTA16-600CW	No Snubber	I	16.0A, Tc=85°C	600	35	168	500	0.005	1.55	TO-220AB	161.00
CTA16-800BW	No Snubber	I	16.0A, Tc=85°C	800	50	168	1000	0.005	1.55	TO-220AB	162.00
CTA16-800CW	No Snubber	I	16.0A, Tc=85°C	800	35	168	500	0.005	1.55	TO-220AB	165.00
CTA16-1000BW	No Snubber	I	16.0A, Tc=85°C	1000	50	168	1000	0.005	1.55	TO-220AB	175.00
CTA16-400B	Standard	I	16.0A, Tc=85°C	400	50	168	400	0.005	1.55	TO-220AB	141.00
CTA16-600B	Standard	I	16.0A, Tc=85°C	600	50	168	400	0.005	1.55	TO-220AB	148.00
CTA16-800B	Standard	I	16.0A, Tc=85°C	800	50	168	400	0.005	1.55	TO-220AB	153.00
CTB16-600BW	No Snubber	N	16.0A, Tc=100°C	600	50	168	1000	0.005	1.55	TO-220AB	157.00
CTB16-600CW	No Snubber	N	16.0A, Tc=100°C	600	35	168	500	0.005	1.55	TO-220AB	145.00
CTB16-800BW	No Snubber	N	16.0A, Tc=100°C	800	50	168	1000	0.005	1.55	TO-220AB	146.00
CTB16-1000BW	No Snubber	N	16.0A, Tc=100°C	1000	50	168	1000	0.005	1.55	TO-220AB	158.00
CTB16-600B	Standard	N	16.0A, Tc=100°C	600	50	168	400	0.005	1.55	TO-220AB	133.00
CTB16-600C	Standard	N	16.0A, Tc=100°C	600	25	168	200	0.005	1.55	TO-220AB	139.00
CTB16-800B	Standard	N	16.0A, Tc=100°C	800	50	168	400	0.005	1.55	TO-220AB	137.00
CTB16-800C	Standard	N	16.0A, Tc=100°C	800	25	168	200	0.005	1.55	TO-220AB	143.00

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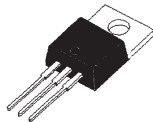
Cat. No.	Device Type	Package Type I = Isolated, N = Non-isolated	On-State RMS Current	V _{DRM} Min. (V)	I _{GT} Max. (mA)	I _{TSM} @60 Hz (A)	dv/dt (V/usec)	I _{DRM} @25°C Max. (mA)	V _{TM} @25°C (V)	Case Type	Net Price
CHTA24-600	High Temperature	I	25.0 A, Tc=100°C	600	50	260	500	0.005	1.55	TO-220AB	\$214.00
CHTA24-800	High Temperature	I	25.0 A, Tc=100°C	800	50	260	500	0.005	1.55	TO-220AB	218.00
CTA24-600BW	No Snubber	I	25.0 A, Tc=75°C	600	50	260	1000	0.005	1.55	TO-220AB	190.00
CTA24-600CW	No Snubber	I	25.0 A, Tc=75°C	600	35	260	500	0.005	1.55	TO-220AB	193.00
CTA24-800BW	No Snubber	I	25.0 A, Tc=75°C	800	50	260	1000	0.005	1.55	TO-220AB	194.00
CTA24-800CW	No Snubber	I	25.0 A, Tc=75°C	800	35	260	500	0.005	1.55	TO-220AB	198.00
CTA24-1000BW	No Snubber	I	25.0 A, Tc=75°C	1000	50	260	1000	0.005	1.55	TO-220AB	207.00
CTA24-600B	Standard	I	25.0 A, Tc=75°C	600	50	260	500	0.005	1.55	TO-220AB	180.00
CHTB24-600	High Temperature	N	25.0 A, Tc=125°C	600	50	260	500	0.005	1.55	TO-220AB	195.00
CHTB24-800	High Temperature	N	25.0 A, Tc=125°C	800	50	260	500	0.005	1.55	TO-220AB	199.00
CTB24-600BW	No Snubber	N	25.0 A, Tc=100°C	600	50	260	1000	0.005	1.55	TO-220AB	171.00
CTB24-800BW	No Snubber	N	25.0 A, Tc=100°C	800	50	260	1000	0.005	1.55	TO-220AB	175.00
CTB24-1000BW	No Snubber	N	25.0 A, Tc=100°C	1000	50	260	1000	0.005	1.55	TO-220AB	187.00
CTB24-400B	Standard	N	25.0 A, Tc=100°C	400	50	260	500	0.005	1.55	TO-220AB	156.00
CTB24-600B	Standard	N	25.0 A, Tc=100°C	600	50	260	500	0.005	1.55	TO-220AB	162.00
CTB24-800B	Standard	N	25.0 A, Tc=100°C	800	50	260	500	0.005	1.55	TO-220AB	166.00



SERIES CRNA/CRNB15, CRNA/CRNB20 AND CRNA/CRNB25 CASE TYPE TO220AB

FEATURES: Suitable for general purpose applications. Isolated and non-isolated tab. VR/V_{RRM} 400, 600, 800, 1000V. **APPLICATIONS:** Input rectification. Low frequency freewheel. Battery isolation.

Cat. No.	Device Type	Package Type I = Isolated, N = Non-isolated	On-State RMS Current I _{F(RMS)}	V _{RRM} Min. (V)	I _{FSM} @60 Hz (A)	I _{RM} @25°C Max. (mA)	V _{FM} @25°C (V)	Case Type	Net Price
CRNB15-400	Standard	N	15.0 A, Tc=100°C	400	225	0.1	1.1	TO-220AB	\$142.00
CRNB15-600	Standard	N	15.0 A, Tc=100°C	600	225	0.1	1.1	TO-220AB	147.00
CRNB15-800	Standard	N	15.0 A, Tc=100°C	800	225	0.1	1.1	TO-220AB	153.00
CRNB15-1000	Standard	N	15.0 A, Tc=100°C	1000	225	0.1	1.1	TO-220AB	165.00
CRNA15-400	Standard	I	15.0 A, Tc=90°C	400	225	0.1	1.1	TO-220AB	157.00
CRNA15-600	Standard	I	15.0 A, Tc=90°C	600	225	0.1	1.1	TO-220AB	164.00
CRNA15-800	Standard	I	15.0 A, Tc=90°C	800	225	0.1	1.1	TO-220AB	170.00
CRNA15-1000	Standard	I	15.0 A, Tc=90°C	1000	225	0.1	1.1	TO-220AB	183.00
CRNB20-400	Standard	N	20.0 A, Tc=95°C	400	300	0.1	1.1	TO-220AB	165.00
CRNB20-600	Standard	N	20.0 A, Tc=95°C	600	300	0.1	1.1	TO-220AB	171.00
CRNB20-800	Standard	N	20.0 A, Tc=95°C	800	300	0.1	1.1	TO-220AB	176.00
CRNB20-1000	Standard	N	20.0 A, Tc=95°C	1000	300	0.1	1.1	TO-220AB	188.00
CRNA20-400	Standard	I	20.0 A, Tc=80°C	400	300	0.1	1.1	TO-220AB	183.00
CRNA20-600	Standard	I	20.0 A, Tc=80°C	600	300	0.1	1.1	TO-220AB	190.00
CRNA20-800	Standard	I	20.0 A, Tc=80°C	800	300	0.1	1.1	TO-220AB	196.00
CRNA20-1000	Standard	I	20.0 A, Tc=80°C	1000	300	0.1	1.1	TO-220AB	209.00
CRNB25-400	Standard	N	25.0 A, Tc=95°C	400	350	0.1	1.1	TO-220AB	191.00
CRNB25-600	Standard	N	25.0 A, Tc=95°C	600	350	0.1	1.1	TO-220AB	197.00
CRNB25-800	Standard	N	25.0 A, Tc=95°C	800	350	0.1	1.1	TO-220AB	202.00
CRNB25-1000	Standard	N	25.0 A, Tc=95°C	1000	350	0.1	1.1	TO-220AB	214.00
CRNA25-400	Standard	I	25.0 A, Tc=80°C	400	350	0.1	1.1	TO-220AB	212.00
CRNA25-600	Standard	I	25.0 A, Tc=80°C	600	350	0.1	1.1	TO-220AB	218.00
CRNA25-800	Standard	I	25.0 A, Tc=80°C	800	350	0.1	1.1	TO-220AB	225.00
CRNA25-1000	Standard	I	25.0 A, Tc=80°C	1000	350	0.1	1.1	TO-220AB	238.00



SERIES CYNA/CYNB16 AND CYNA/CYNB25 CASE TYPE TO-220AB

FEATURES: Suitable for general purpose AC switching. I_{GT} 40 mA max. Isolated and non-isolated tab. V_{DRM}/V_{RRM} 400, 600, 800, 1000V. **APPLICATIONS:** Motor control, overvoltage crowbar protection, capacitive discharge ignition. Voltage regulation, welding equipment, capacitive filter soft start (inrush current control).

Cat. No.	Device Type	Package Type I = Isolated, N = Non-isolated	On-State RMS Current	V _{DRM} Min. (V)	I _{GT} Max. (mA)	I _{TSM} @60Hz (A)	dv/dt (V/usec)	I _{DRM} @25°C Max. (mA)	T _{TM} @25°C (V)	Case Type	Net Price
CYNB16-400	Standard	N	16.0 A, Tc=110°C	400	25	200	500	0.005	1.55	TO-220AB	\$142.00
CYNB16-600	Standard	N	16.0 A, Tc=110°C	600	25	200	500	0.005	1.55	TO-220AB	147.00
CYNB16-800	Standard	N	16.0 A, Tc=110°C	800	25	200	500	0.005	1.55	TO-220AB	153.00
CYNB16-1000	Standard	N	16.0 A, Tc=110°C	1000	25	200	500	0.005	1.55	TO-220AB	165.00
CYNA16-400	Standard	I	16.0 A, Tc=95°C	400	25	200	500	0.005	1.55	TO-220AB	157.00
CYNA16-600	Standard	I	16.0 A, Tc=95°C	600	25	200	500	0.005	1.55	TO-220AB	164.00
CYNA16-800	Standard	I	16.0 A, Tc=95°C	800	25	200	500	0.005	1.55	TO-220AB	170.00
CYNA16-1000	Standard	I	16.0 A, Tc=95°C	1000	25	200	500	0.005	1.55	TO-220AB	183.00
CYNB25-400	Standard	N	25.0 A, Tc=100°C	400	35	350	1000	0.005	1.55	TO-220AB	191.00
CYNB25-600	Standard	N	25.0 A, Tc=100°C	600	35	350	1000	0.005	1.55	TO-220AB	197.00
CYNB25-800	Standard	N	25.0 A, Tc=100°C	800	35	350	1000	0.005	1.55	TO-220AB	202.00
CYNB25-1000	Standard	N	25.0 A, Tc=100°C	1000	35	350	1000	0.005	1.55	TO-220AB	214.00
CYNA25-400	Standard	I	25.0 A, Tc=75°C	400	35	350	1000	0.005	1.55	TO-220AB	212.00
CYNA25-600	Standard	I	25.0 A, Tc=75°C	600	35	350	1000	0.005	1.55	TO-220AB	218.00
CYNA25-800	Standard	I	25.0 A, Tc=75°C	800	35	350	1000	0.005	1.55	TO-220AB	225.00
CYNA25-1000	Standard	I	25.0 A, Tc=75°C	1000	35	350	1000	0.005	1.55	TO-220AB	238.00