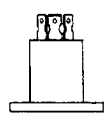
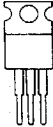
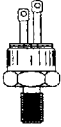
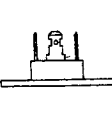
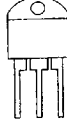
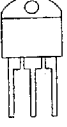


TRIACS

(LISTED IN ORDER OF $I_{T(RMS)}$)

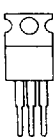
V_{RRM} DC or Pk Volts	$I_{T(RMS)}$ Maximum Forward Current								
	25A			40A				45A	
25									
50									
100									
200				NTE5693	NTE56022		NTE5688		
300									
400		NTE56014		NTE5695	NTE56024		NTE5689	NTE56030	
500									
600				NTE5697	NTE56026	NTE5679	NTE5690	NTE56031	NTE56033
800	NTE5699		NTE56028						
I_{GT} (mA)*	50/75 Max	80/100 Max	50/75 Max	50/80 Max	50/80 Max	100 Max	50/80 Max	100/150 Max	50/100 Max
V_{GT} (V)	2.5 Max	2.5 Max	2 Max	2.5 Max	2.5 Max	2.5 Max	2.5 Max	2.5 Max	1.5 Max
V_{FON} (V)	1.85 Max	1.8 Max	1.85 Max	2 Max	2 max	1.8 Max	2 Max	1.8 Max	1.8 Max
I_{Surge} (A)	250 Max	250 Max	350 Max	400 Max	300 Max	300 Max	400 Max	400 Max	300 Max
I_{Hold} (mA)	50 Max	80 Max	75 Max	60 Max	60 Max	100 Max	60 Max	100 Max	80 Max
Firing Quads	All	All	All	All	All	I, II, III	All	All	All
Pkg. Type									
Diag. No.	491	406a	11j	111a	113b	178	397	55d	55b
Package	TO220 Full Pack	TO3 Isolated Flange	TO220	TO48** 1/4-28 UNF-2A	TO48** Isolated Flange	TO3 Square Pack	1/2" Press Fit	TO218 Isolated	TO218

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

** Mounting Torque, in•lb (m•N): TO48 - 30 (3.33); TO64 - 20 (2.22)

INTERNALLY TRIGGERED TRIACS

NTE Type No.	TRIAC Characteristics					Trigger TRIAC Characteristics				Package Style/Diag. No.
	Repetitive Peak Blocking Voltage (Volts)	RMS On-State Current (Amps)	Holding Current (mA)	Peak One-Cycle Surge Current (Amps)	Peak On-State Voltage @ I_T (RMS) (Volts)	Breakover Voltage Forward & Reverse (Volts)		Breakover Voltage Symmetry (Volts)	Peak Breakover Current (μ A)	
	V_{DRM}	I_T (RMS)	I_{Hold}	I_{Surge}	V_{FON}	$V_{(BO)}$		$\Delta V_{(BO)}$	$I_{(BO)}$	
5646	600	10	60 Max	120	1.6	MIN	MAX	3 Max	200	TO220 Isolated Diag. 11k
						30	40			



DESCRIPTION:

The NTE5646 is a TRIAC that includes a DIAC trigger mounted inside the same package. This device saves the user the expense and assembly time of buying a discrete DIAC and assembling in conjunction with a gated TRIAC. The NTE5646 is a bidirectional AC switch and is gate controlled for either polarity of main terminal voltage.

