



PRODUCT NAME : Q4025L6 25A 400V TRI
AC

PRICE : Rs 35.00

SKU : RM1998



DESCRIPTION

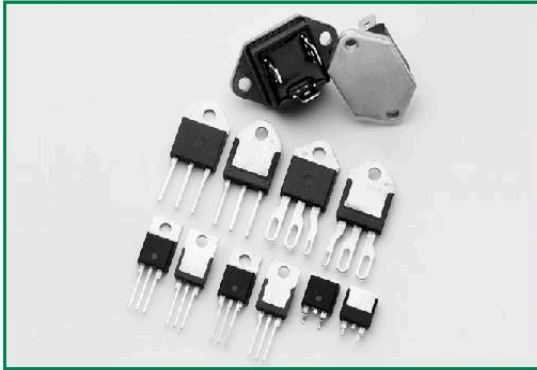
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Teccor® brand Thyristors

25 Amp Standard & Alternistor (High Commutation) Triacs

RoHS Qxx25xx & Qxx25xHx Series



Description

25 Amp bi-directional solid state switch series is designed for AC switching and phase control applications such as motor speed and temperature modulation controls, lighting controls, and static switching relays.

Standard type devices normally operate in Quadrants I & III triggered from AC line.

Alternistor type devices only operate in quadrants I, II, & III and are used in circuits requiring high dv/dt capability.

Features & Benefits

- RoHS compliant
- Glass – passivated junctions
- Voltage capability up to 1000 V
- Surge capability up to 250 A

Applications

Excellent for AC switching and phase control applications such as heating, lighting, and motor speed controls.

Typical applications are AC solid-state switches, industrial power tools, exercise equipment, white goods and commercial appliances.

Alternistor Triacs (no snubber required) are used in applications with extremely inductive loads requiring highest commutation performance.

Internally constructed isolated packages are offered for ease of heat sinking with highest isolation voltage.

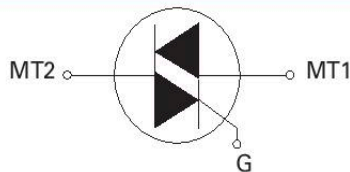
Agency Approval

Agency	Agency File Number
	TO-220L, TO-218K, TO-218J & Fastpak Packages: E71639

Main Features

Symbol	Value	Unit
$I_{T(RMS)}$	25	A
V_{DRM}/V_{RRM}	1000	V
I_{GT}	50 to 80	mA

Schematic Symbol



25 A TRIACS

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 25 Amp Standard & Alternistor (High Commutation) Triacs



Absolute Maximum Ratings – Standard Triac

Symbol	Parameter	Test Conditions		Value	Unit
$I_{T(RMS)}$	RMS on-state current	Qxx25R5 Qxx25N5	$T_c = 85^\circ\text{C}$	25	A
		Qxx25P5	$T_c = 57^\circ\text{C}$		
I_{TSM}	Peak non-repetitive surge current	Qxx25R5 Qxx25N5	single half cycle; $f = 50\text{Hz}$; T_j (initial) = 25°C	167	A
			single half cycle; $f = 60\text{Hz}$; T_j (initial) = 25°C	200	
		Qxx25P5	single half cycle; $f = 50\text{Hz}$; T_j (initial) = 25°C	220	
			single half cycle; $f = 60\text{Hz}$; T_j (initial) = 25°C	250	
I^2t	I^2t Value for fusing	Qxx25R5 Qxx25N5	$t_p = 8.3\text{ms}$	166	A^2s
		Qxx25P5		260	
di/dt	Critical rate-of-rise of on-state current	$f = 60\text{Hz}; T_j = 125^\circ\text{C}$		100	$\text{A}/\mu\text{s}$
I_{GTM}	Peak gate current	$T_j = 125^\circ\text{C}$		2	A
$P_{G(AV)}$	Average gate power dissipation	$T_j = 125^\circ\text{C}$		0.5	W
T_{stg}	Storage temperature range			-40 to 125	$^\circ\text{C}$
T_j	Operating junction temperature range	Qxx25R5 Qxx25N5		-40 to 125	$^\circ\text{C}$
		Qxx25P5		-25 to 125	

Absolute Maximum Ratings – Alternistor Triac

Symbol	Parameter	Test Conditions		Value	Unit
$I_{T(RMS)}$	RMS on-state current	Qxx25LH5 Qxx25L6	$T_c = 65^\circ\text{C}$	25	A
		Qxx25K6 Qxx25J6	$T_c = 85^\circ\text{C}$		
		Qxx25RH5 Qxx25NH5 Qxx25R6 Qxx25NH6	$T_c = 95^\circ\text{C}$		
I_{TSM}	Peak non-repetitive surge current	single half cycle; $f = 50\text{Hz}$; T_j (initial) = 25°C		208	A
		single half cycle; $f = 60\text{Hz}$; T_j (initial) = 25°C		250	
I^2t	I^2t Value for fusing	$t_p = 8.3\text{ms}$		260	A^2s
di/dt	Critical rate-of-rise of on-state current	$f = 60\text{Hz}; T_j = 125^\circ\text{C}$		100	$\text{A}/\mu\text{s}$
I_{GTM}	Peak gate current	$T_j = 125^\circ\text{C}$		2	A
$P_{G(AV)}$	Average gate power dissipation	$T_j = 125^\circ\text{C}$		0.5	W
T_{stg}	Storage temperature range			-40 to 125	$^\circ\text{C}$
T_j	Operating junction temperature range			-40 to 125	$^\circ\text{C}$

Note: xx = voltage

