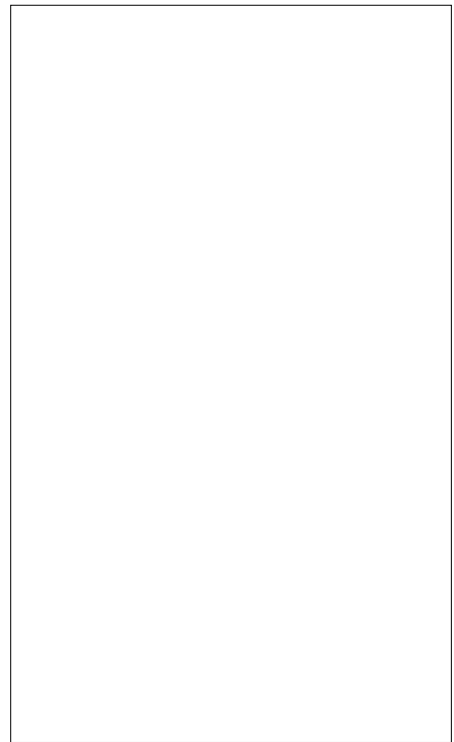


## T810-10K 8A TRIAC

Rev.A.1.2

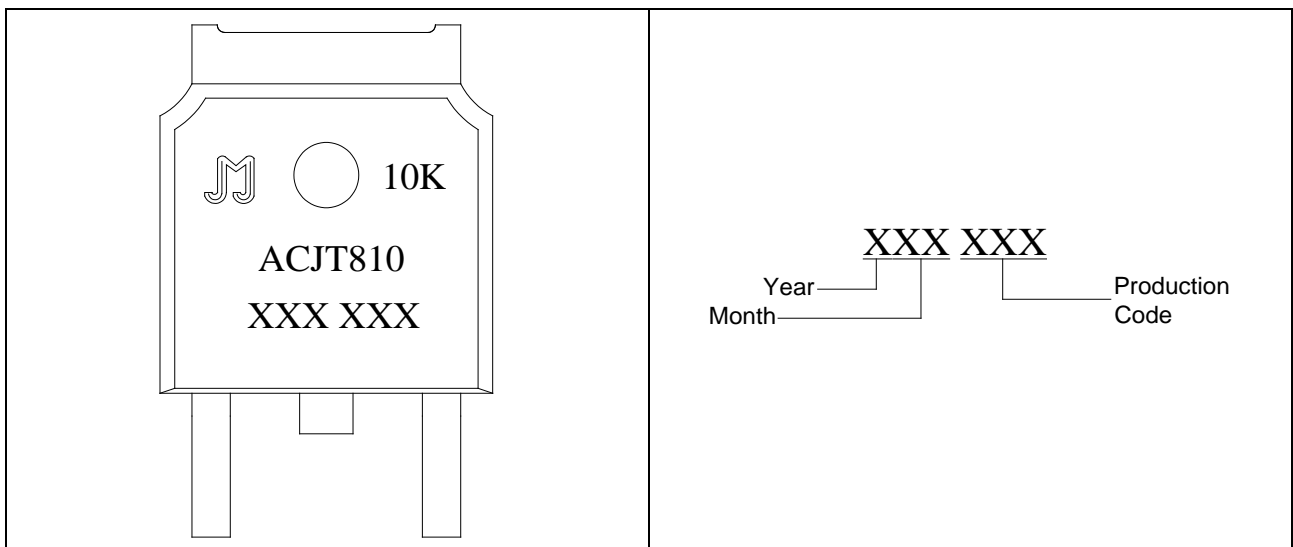
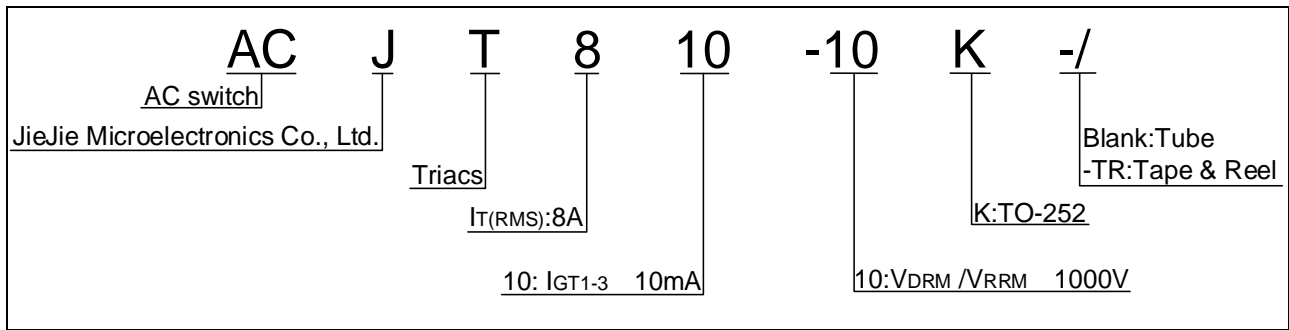
ACJT810-10K triac is suitable for general purpose switching. It can be used as an ON/OFF function in applications such as heating regulation, induction motor starting circuits, for phase control operation in light dimmers, motor speed controllers. The ACJT810-10K includes a TVS structure to absorb the inductive turn-off energy such as those described in the IEC 61000-4-5 standards. Package TO-252 is RoHS compliant.



Symbol	Value	Unit
$I_{T(RMS)}$	8	A
$V_{DRM}/V_{RRM}$	1000	V

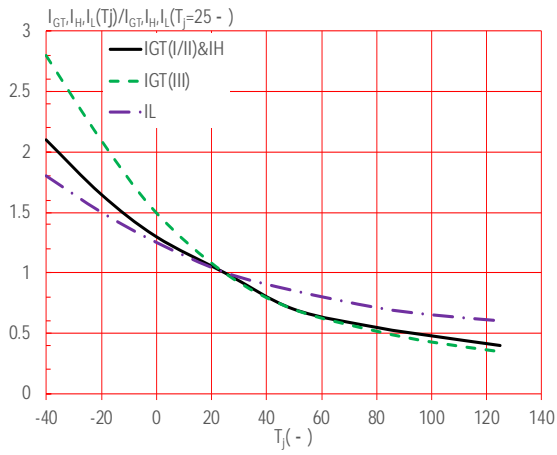
Parameter	Symbol	Value	Unit
Storage junction temperature range	$T_{stg}$	-40-150	
Operating junction temperature range	$T_j$	-40-125	
Repetitive peak off-state voltage ( $T_j=25^\circ C$ )	$V_{DRM}$	1000	V
Repetitive peak reverse voltage ( $T_j=25^\circ C$ )	$V_{RRM}$	1000	V
Steady on-state current ( $T_c = 107^\circ C$ )	$I_{T(RMS)}$	8	A
Repetitive surge peak on-state current cycle, $t_p=20ms, T_j=25^\circ C$	$I_{TSM}$	80	A
Repetitive surge peak on-state current cycle, $t_p=16.6ms, T_j=25^\circ C$		88	
Value for fusing ( $t_p=10ms, T_j=25^\circ C$ )	$I^2t$	32	$A^2s$
Maximum rate of rise of on-state current ( $2 \times I_{GT}, f=100Hz, T_j=125^\circ C$ )	$di/dt$	100	$A/\mu s$
Peak gate current ( $t_p=20\mu s, T_j=125^\circ C$ )	$I_{GM}$	4	A
Average gate power dissipation ( $T_j=125^\circ C$ )	$P_{G(AV)}$	0.5	W
Peak gate power	$P_{GM}$	10	W

**ACJT810-10K**





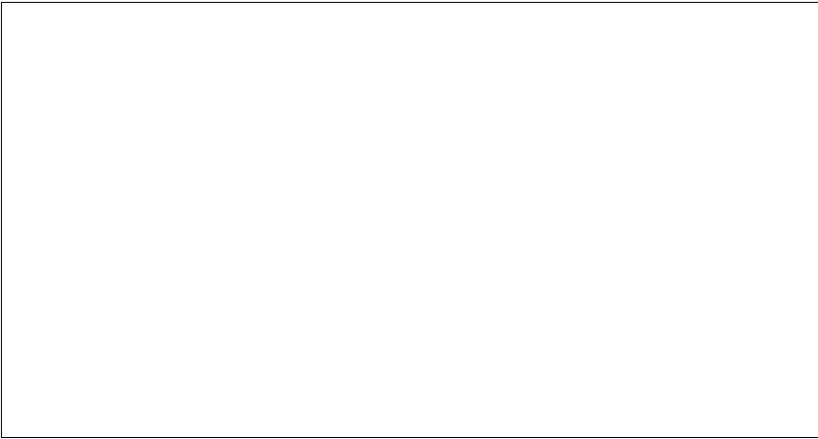
**FIG.7:** Relative variations of gate trigger current, holding current and latching current versus junction temperature







Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	2.10		2.50	0.083		0.098
A2	0		0.15	0		0.006
B	0.66		0.86	0.026		0.034
C	0.40		0.60	0.016		0.024
D	5.90		6.30	0.232		0.248
E	6.40		6.80	0.252		0.268
G	4.47		4.67252			0.268
G1	2.18		2.38	0.086		0.094
L						
L2				0.053		0.065





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