

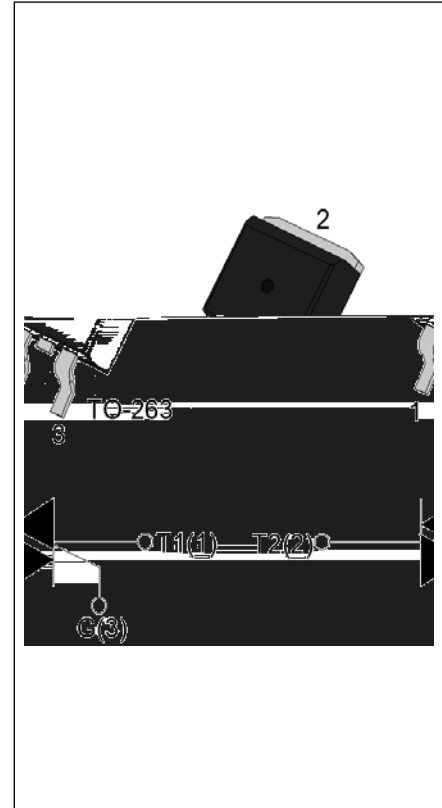


T0410H-6E 4A TRIAC

Rev.A.1.0

DESCRIPTION:

The T0410H6E is a sensitive triac with a wide operating temperature range. It can be used as ON/OFF for AC load control. It has a high thermal conductivity and a high thermal stability. It is suitable for use in high temperature environments. The T0410H6E is a 4A triac with a peak current of 150A. It can be used as a switch for AC load control. It has a high thermal conductivity and a high thermal stability. It is suitable for use in high temperature environments. The T0410H6E is a 4A triac with a peak current of 150A. It can be used as a switch for AC load control. It has a high thermal conductivity and a high thermal stability. It is suitable for use in high temperature environments.



MAIN FEATURES

Symbol	Value	Unit
$I_{T(RMS)}$	4	A
V_{DRM} / V_{RRM}	600	V
$I_{GT} / /$	10/10/10	mA

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
Storage temperature	T_g	-40-150	
Operating temperature	T_j	-40-150	
Repetitive peak reverse voltage (T _j =25°C)	V_{DRM}	600	V
Repetitive peak forward voltage (T _j =25°C)	V_{RRM}	600	V
RMS on-state current (T _c =137°C)	$I_{T(RMS)}$	4	A
Non-repetitive surge current (f _{avg} =100Hz, t _p =20ms, T _j =25°C)	I_{TSM}	40	A
Non-repetitive surge current (f _{avg} =100Hz, t _p =16.6ms, T _j =25°C)		44	
Surge current (t _p =10ms, T _j =25°C)	I^2t	8	A ² s
Current rate of rise (I _G =2×I _{GT} , f=100Hz, T _j =150°C)	di/dt	50	A/μs
Peak gate current (t _p =20μs, T _j =150°C)	I _{GM}	4	A
Average gate power dissipation (T _j =150°C)	P _{G(AV)}	1	W

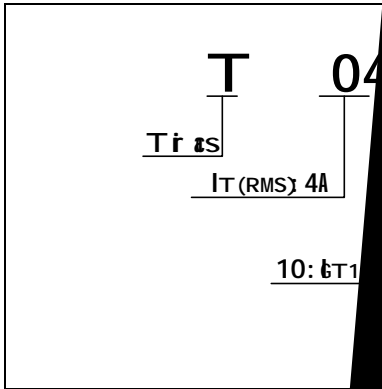
Peak Power	P_{GM}	10	W
Peak Voltage ($T_j=25^\circ\text{C}$; see Fig. 8)	V_p	3	V

ELECTRICAL CHARACTERISTICS ($T_j=25^\circ\text{C}$ unless specified)

Symbol	Test Condition	Quadrant	Value	Unit	
I_{GT}	$V_D=12\text{V}$ $R_L=33\Omega$	- -	MAX .	10	mA
V_{GT}		- -	MAX .	1	V
V_{GD}	$V_D=V_{DRM}$ $T_j=150^\circ\text{C}$ $R_L=3.3\text{K}\Omega$	- -	MIN .	0.2	V
I_L	$I_G=1.2I_{GT}$	-	MAX .	20	mA
				35	
I_H	$I_T=100\text{mA}$		MAX .	20	mA
					V/ μs
					A/nA
t_b	$I_G=20\text{mA}$ $I_A=200\text{mA}$ $I_R=20\text{mA}$ $T_j=25^\circ\text{C}$		TYP .	2.5	μs
t_{ff}				25	

T0410H-6E

ORDERING INFORMATION



MARKING

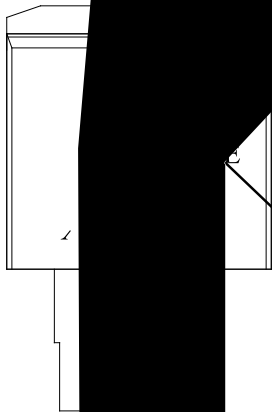


FIG.1 Max I_{pk} vs I_{RMS}
 I_{pk} vs I_{RMS}

FIG.2: RMS I_{pk} vs I_{RMS}
 I_{pk} vs I_{RMS}

FIG.7: Reliability test graph
h₀₁ g c₀₁ thi g c₀₁s
jt c₀₁s

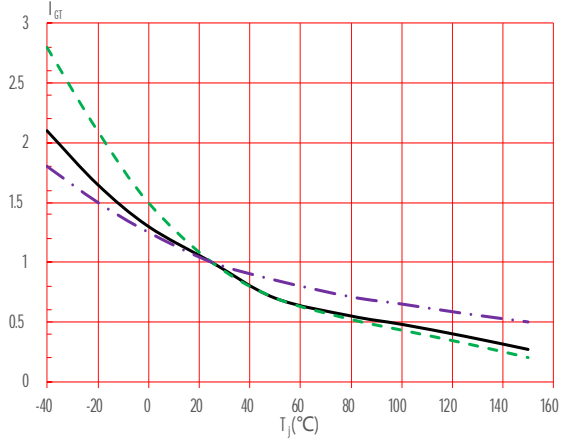
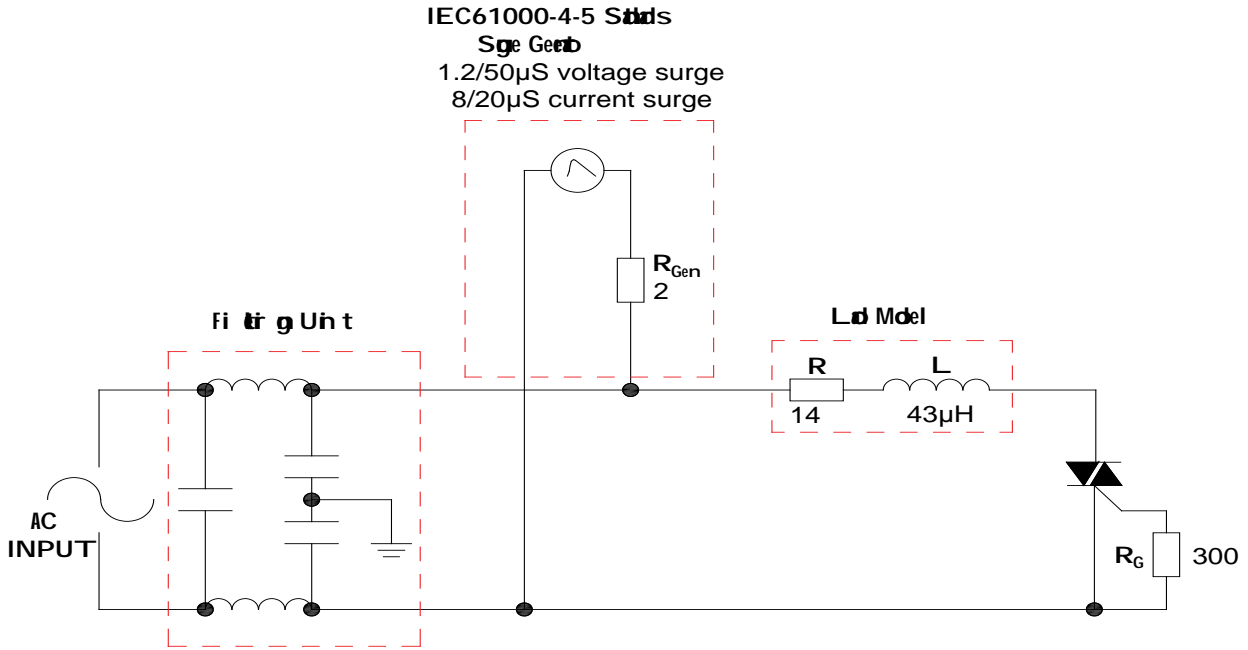


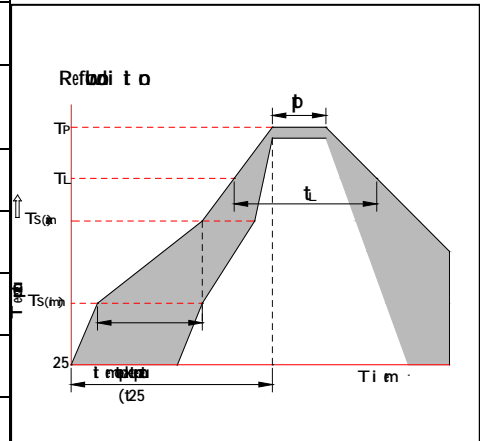
FIG. 8 Test circuit for voltage surge

-61000-4-5



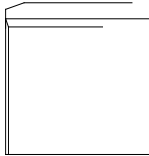
SOLDERING PARAMETERS

Ref t o		Pb-Free
Ref t o		(e f i g e n t)
Pe Heat	-Temp (T _{max}) (min)	+150
	-Temp (T _{max}) (min)	+200
	-Time (Min to Max) (s)	60-180
Angle	(Li q d e p n (T _L))	3 /s. Max
Temp of L-Rpn part		3 /s. Max
Reflow	-Temp (T _L) (Li q d e p n)	+217
	-Temp (t _L)	60-150
PekTemp (p)		+260(+0/-5)
Time interval	PekTemp (p)	20-40
Rpn -d		6 /s. Max
Time 25	PekTemp (p)	8 min Max
Docend		+260



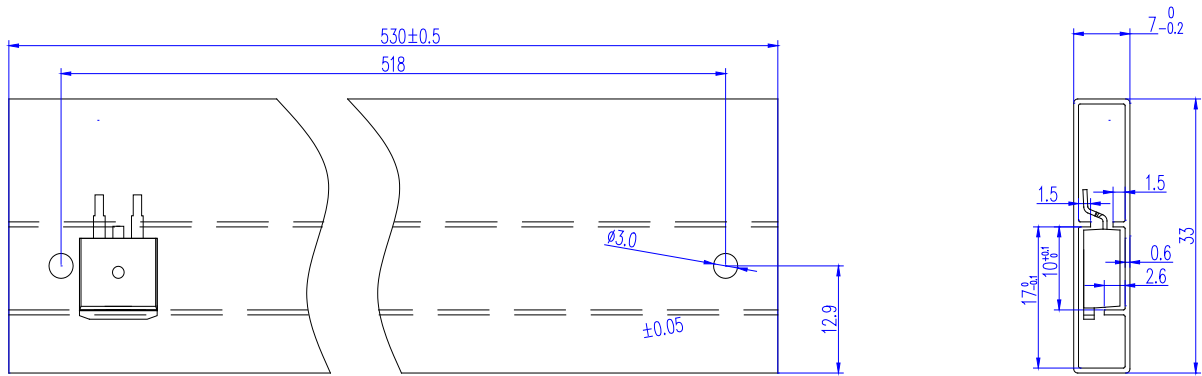
T0410H-6E

PACKAGE MECHANICAL DATA

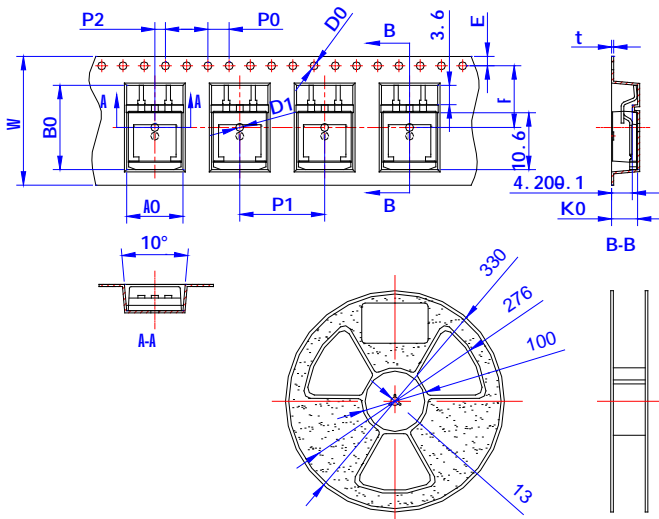


Ref.	Di ens					
	Mi l ets			lches		
	Min	Typ	Max	Min	Typ	Max
A	9.90		10.20	0.390		0.402
B	14.70		15.80	0.579		0.622
C	9.40		9.60	0.37		0.378
D	2.40			0.094		
E	1.20		1.50	0.047		0.059
F	0.75		0.85	0.029		0.033
G			1.50			
H	4.40		4.70	0.173		0.185
J	2.30		2.70	0.091		0.106
K	0.38		0.55	0.015		0.022
L	0		0.25			
M	1.25		1.35			

DELIVERY MODE



PACKAGE	OUTLINE	TUBE (PCS)	INNER BOX (PCS)	PER CARTON
T0263	TUBE	50	1,000	5,000



Ref.	Dimensions					
	Millimeters			Inches		
	Min	Typ	Max	Min	Typ	Max
W	23.70	24.00	24.30	0.933	0.945	0.957
E	1.65	1.75	1.85	0.065	0.069	0.073
F	11.40	11.50	11.60	0.449	0.453	0.457
D0	-	1.50	1.60	-	0.059	0.063
D1	-	1.50	1.60	-	0.059	0.063
P0	3.90	4.00	4.10	0.154	0.157	0.161
P1	15.90	16.00	16.10	0.626	0.630	0.634
P2	1.90	2.00	2.10	0.075	0.079	0.083
A0	10.80	10.90	11.00	0.425	0.429	0.433
B0	16.20	16.30	16.40	0.638	0.642	0.646
K0	4.80	4.90	5.00	0.189	0.193	0.197
t	0.35	0.40	0.45	0.014	0.016	0.018

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