Press Fit Isolated Stud Mount Triac ½", 30 Amps

Features

- Improved glass passivation for high reliability
- Exceptional stability at high temperatures
- Metric thread type available
- Low thermal resistance

Electrical Characteristics (T_A = 25°C unless otherwise specified)				
Parameter		**Symbol**	**Part Numbers**	**Units**
Maximum repetitive peak reverse voltage (1), V_{RRM}		200	NPIT302	V
		400	NPIT304	
		600	NPIT306	
RMS on-state current		$I_{T(RMS)}$	30	A
Non-repetitive peak surge on-state current, one cycle		I_{TSM}	300	A
Peak gate trigger current		I_{GTM}	12	A
Peak gate power dissipation @ $I_{GT} \le I_{GTM}$		P_{GM}	40	W
Average gate power dissipation		$P_{G(AV)}$	0.75	W
Peak off-state current (1)		I_{DRM} & I_{RRM}	1.0	mA
Maximum instantaneous forward voltage drop (1)		V_{TM}	2.0	V
DC holding current (1)		I_H	60	mA
Critical rate-of-rise of off-state voltage (1)		Critical dv/dt	200	V/µsec
Critical rate-of-rise of commutation voltage (1)		Commutating dv/dt	3	V/µsec
DC gate trigger current	(T_2+ Gate +, T_2 - Gate -) Quads I and III	I_{GT}	100	mA
	(T_2+ Gate - , T_2 - Gate +) Quads II and IV		150	
DC gate trigger voltage		V_{GT}	2.5	V
Gate controlled turn-on time		Tgt	3	µsec

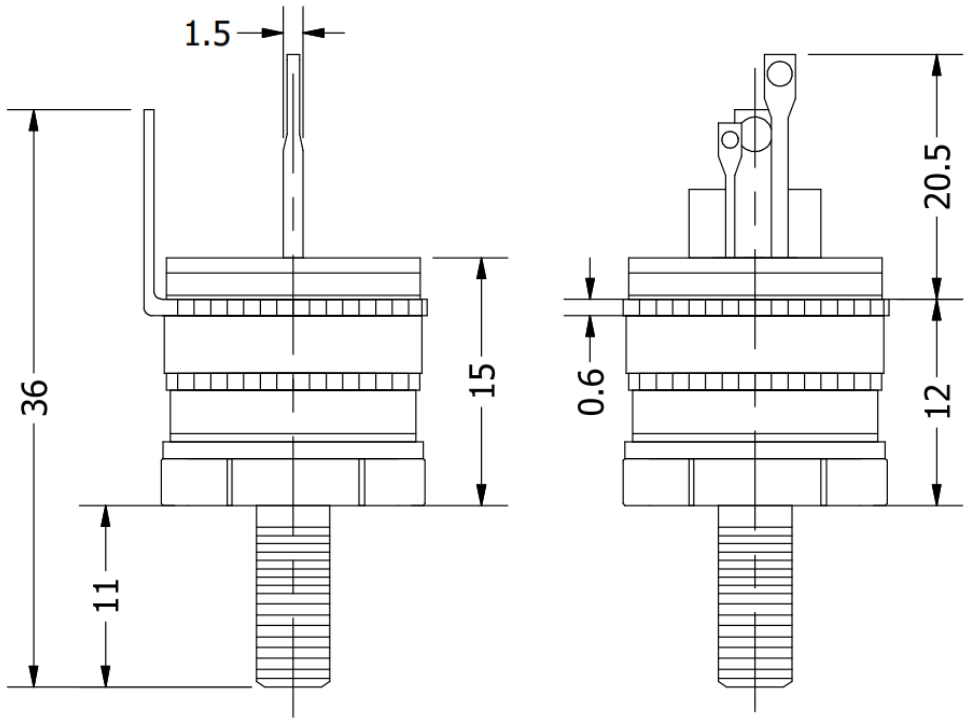
Thermal and Mechanical Specifications (T_A = 25°C, unless otherwise noted)			
Parameters	**Symbol**	**Values**	**Units**
Maximum operating junction temperature range	T_J	- 40 to +110	°C
Maximum storage temperature range	T_{stg}	- 40 to +150	°C
Maximum thermal resistance, junction to case	$R_{\theta(J-C)}$	2.1	°C/W
Approximate weight	W	30	g

Notes:
(1) All values apply in either direction

D-95, Sector 63, Noida – 201301, India • Tel: 0120-4575080 • Fax: 0120-4273653
info@nainasemi.com • www.nainasemi.com

Package Outline

(All dimensions in mm)



Ordering Table

NPIT	*30*	*2,4,6*
1	2	3

1 – Press Fit Isolated Stud Mount Triac
2 – Current, $I_{T(RMS)}$
3 – Voltage, V_{RRM} (See table)

D-95, Sector 63, Noida – 201301, India • Tel: 0120-4575080 • Fax: 0120-4273653
info@nainasemi.com • www.nainasemi.com