

## Press Fit Isolated Stud Mount SCR ½", 40 Amps

**Features**

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



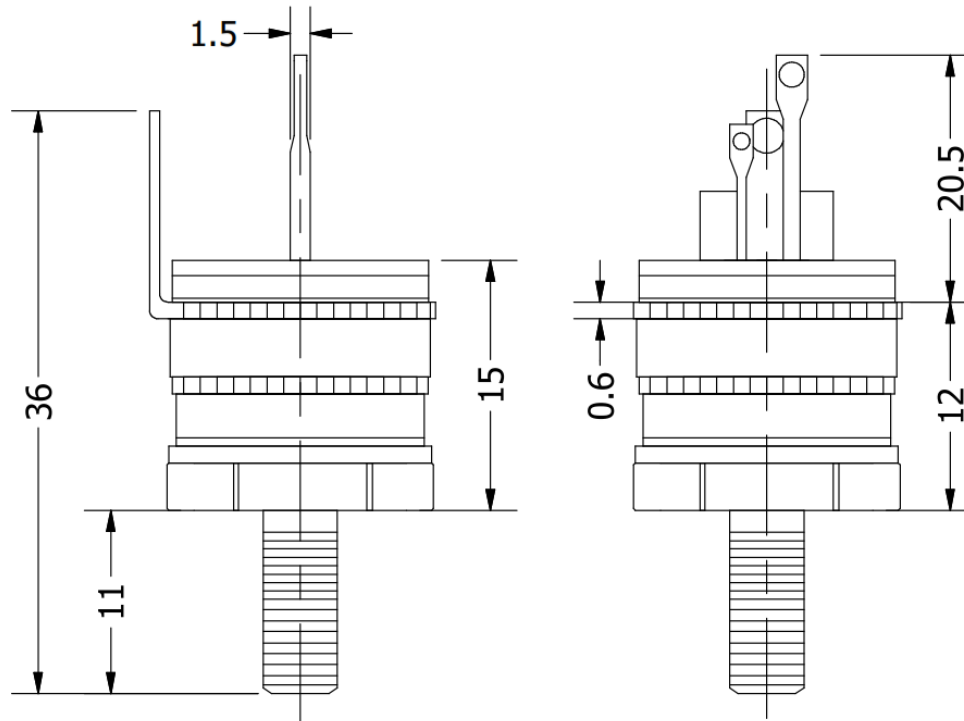
SC-66

Electrical Characteristics ( $T_A = 25^\circ\text{C}$ unless otherwise specified)			
Parameter	Symbol	Part Numbers	Units
Maximum repetitive peak reverse voltage, $V_{RRM}$	50	NPIS400	V
	100	NPIS401	
	200	NPIS402	
	400	NPIS404	
	600	NPIS406	
Maximum average forward output current	$I_{T(AV)}$	40	A
Peak forward surge current, single half sine-wave	$I_{TSM}$	400	A
Peak gate trigger current	$I_{GTM}$	2	A
Peak gate power dissipation @ $I_{GT} \leq I_{GTM}$	$P_{GM}$	20	W
Average gate power dissipation	$P_{G(AV)}$	0.5	W
Peak off-state current	$I_{DRM}$ & $I_{RRM}$	1.0	mA
Maximum instantaneous forward voltage drop @ 100 A	$V_{TM}$	1.6	V
DC holding current	$I_H$	50	mA
Critical rate-of-rise of off-state voltage	dv/dt	200	V/ $\mu\text{sec}$
Gate trigger current	$I_{GT}$	25	mA
Gate trigger voltage	$V_{GT}$	2.0	V
Turn-on time	Tgt	2.5	$\mu\text{sec}$

Thermal and Mechanical Specifications ( $T_A = 25^\circ\text{C}$ , unless otherwise noted)			
Parameters	Symbol	Values	Units
Maximum operating junction temperature range	$T_J$	- 40 to +110	$^\circ\text{C}$
Maximum storage temperature range	$T_{Stg}$	- 40 to +150	$^\circ\text{C}$
Maximum thermal resistance, junction to case	$R_{\theta(j-c)}$	1.6	$^\circ\text{C}/\text{W}$
Approximate weight	W	30	g

## Package Outline

(All dimensions in mm)



## Ordering Table

NPIS	40	0,1,2,4,6
1	2	3

1 – Press Fit Isolated Stud Mount SCR

2 – Current,  $I_{F(AV)}$

3 – Voltage,  $V_{RRM}$  (See table)