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°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/µsec
Gate trigger current	I_{GT}	25	mA
Gate trigger voltage	V_{GT}	2.0	V
Turn-on time	Tgt	2.5	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	$R_{\theta(J-C)}$	1.6	°C/W
Approximate weight	W	30	g

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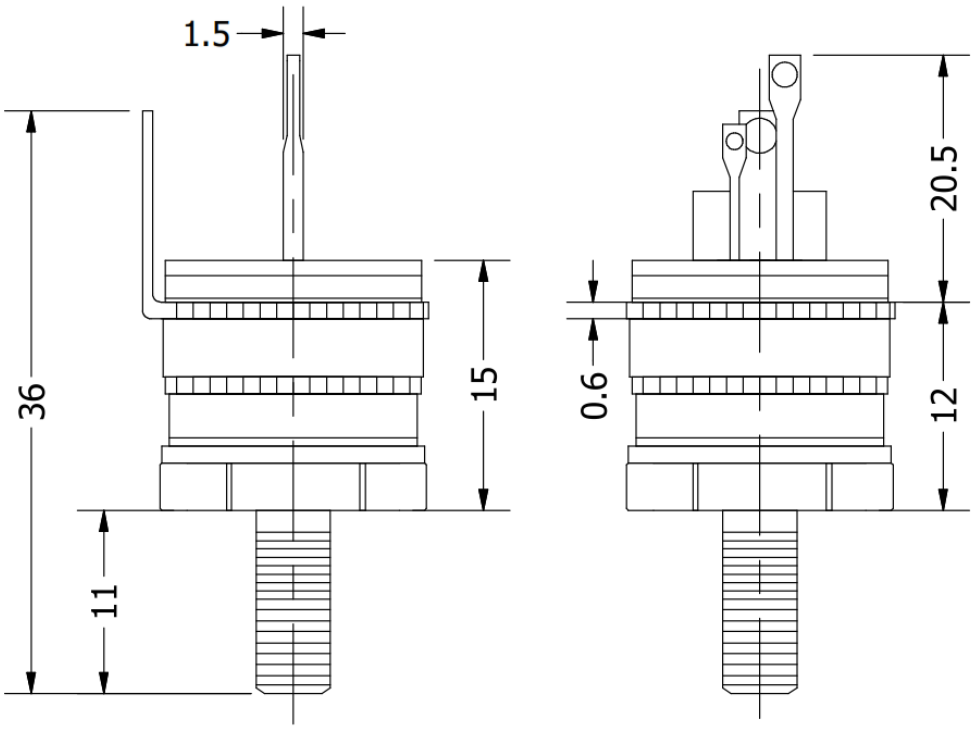
Package Outline

(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)

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