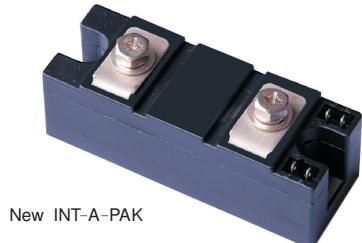
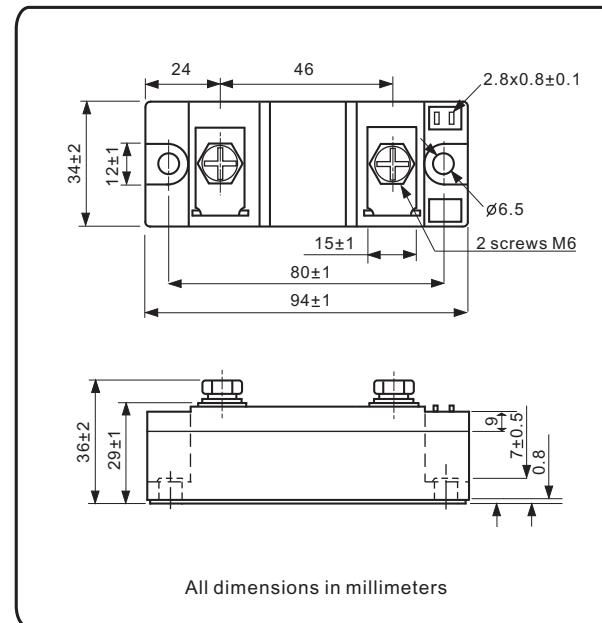


Phase Control Thyristor, 160A (New INT-A-PAK Power Modules)



FEATURES

- High voltage
- Electrically isolated by DBC ceramic (Al_2O_3)
- 3500 V_{RMS} isolating voltage
- Industrial standard package
- High surge capability
- Glass passivated chips
- Modules uses high voltage power thyristor/diodes in two basic configurations
- Simple mounting
- UL approved file E320098 
- Compliant to RoHS
- Designed and qualified for multiple level



All dimensions in millimeters

APPLICATIONS

- DC motor control and drives
- Battery charges
- Welders
- Power converters
- Lighting control
- Heat and temperature control



PRODUCT SUMMARY	
I _{T(AV)}	160 A

MAJOR RATINGS AND CHARACTERISTICS			
SYMBOL	CHARACTERISTICS	VALUES	UNITS
I _{T(AV)}	85 °C	160	A
I _{T(RMS)}	85 °C	251	
I _{TSM}	50 Hz	5400	A
	60 Hz	5670	
I ² t	50 Hz	146	kA ² s
	60 Hz	133	
I ² f		1458	kA ² √s
V _{DRM} / V _{RRM}	Range	400 to 1600	V
T _J	Range	-40 to 125	°C

Nell High Power Products

Fig.1 On-state current vs. voltage characteristic

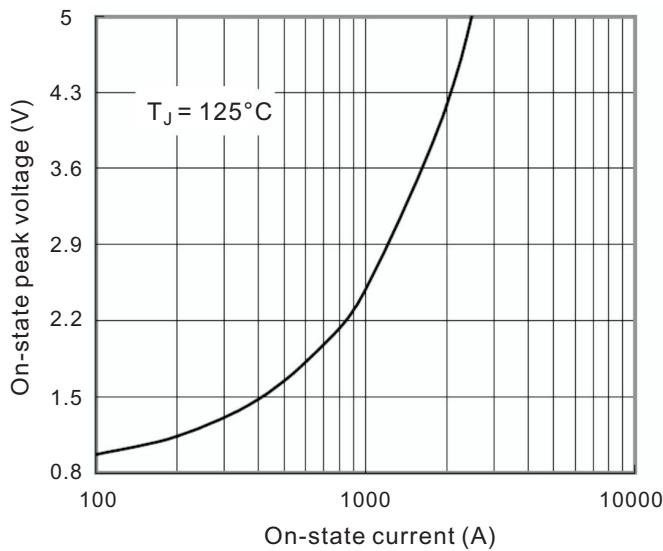


Fig.3 Power consumption vs. average current

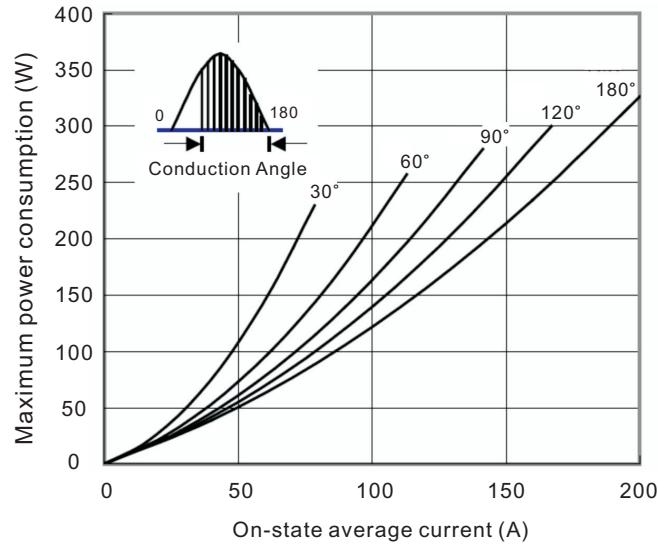


Fig.5 On-state surge current vs cycles

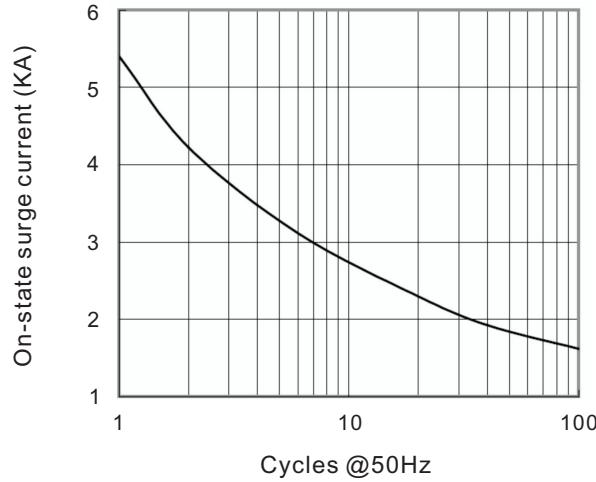


Fig.2 Transient thermal impedance(junction-case)

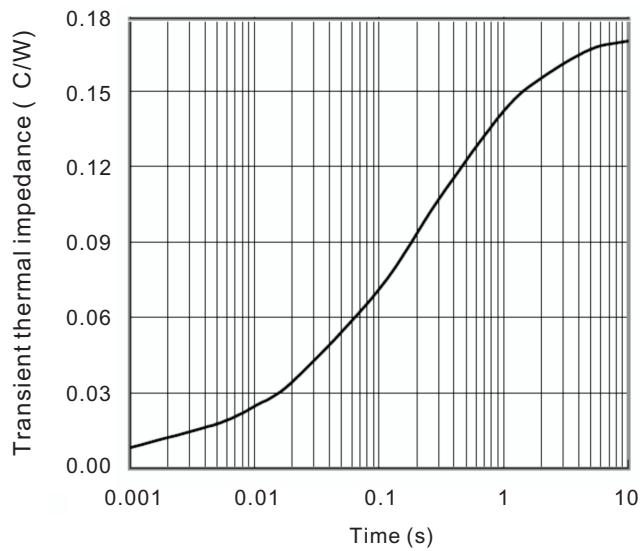


Fig.4 Case temperature vs. on-state average current

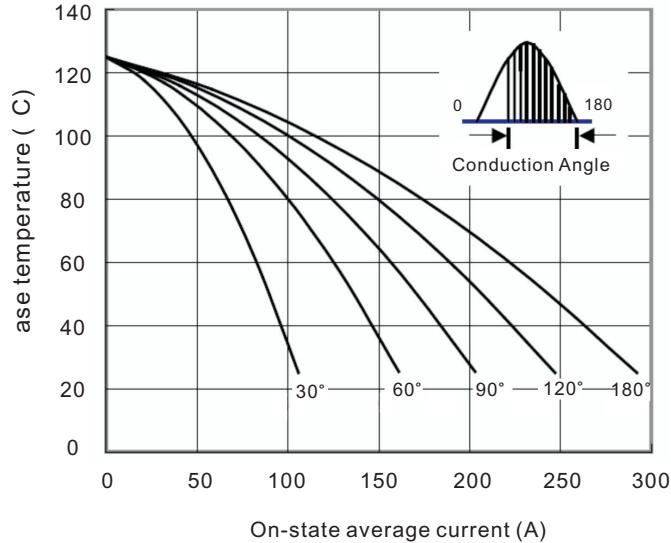


Fig.6 Gate characteristics

