

Characteristics

	PARAMETER	MIN.	TYP.	MAX.	TEST CONDITIONS (Note 1)	UNITS
V _{TM}	Maximum peak on-state voltage	-	-	1.29	I _{TM} =2550A	V
V ₀	Threshold voltage	-	-	0.855		V
r _s	Slope resistance	-	-	0.171		mΩ
dV/dt	Critical rate of rise of off-state voltage	1000	-	-	V _D =80% V _{DRM}	V/μs
I _{DRM}	Peak off-state current	-	-	100	Rated V _{DRM}	mA
I _{RRM}	Peak reverse current	-	-	100	Rated V _{RRM}	mA
V _{GT}	Gate trigger voltage	-	-	3.0	T _j =25°C	V
I _{GT}	Gate trigger current	-	-	300	T _j =25°C. V _D =10V, I _T =2A	mA
I _H	Holding current	-	-	1000	T _j =25°C	mA
R _θ	Thermal resistance, junction to heatsink	-	-	0.024	Double side cooled	K/W
		-	-	0.048	Single side cooled	K/W
F	Mounting force	19	-	26		kN
W _t	Weight	-	510	-		g

Notes:-

- 1) Unless otherwise indicated T_j=125°C.

Curves

Figure 1 - On-state current vs. Power dissipation - Double Side Cooled (Sine wave)

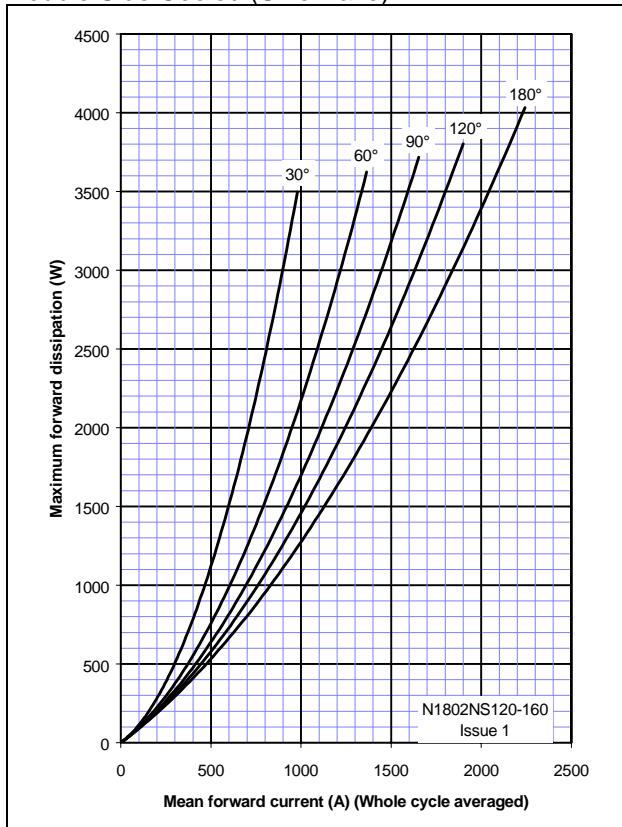


Figure 2 - On-state current vs. Heatsink temperature - Double Side Cooled (Sine wave)

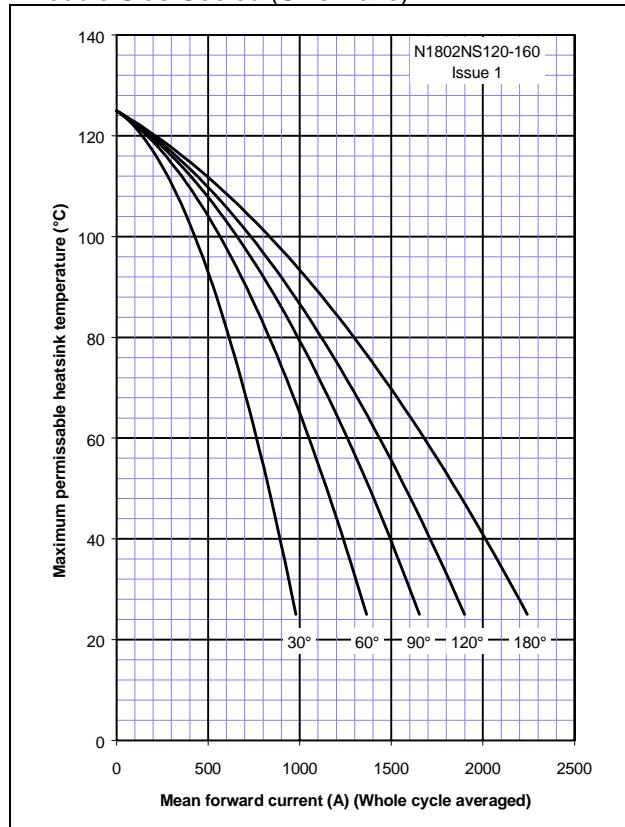


Figure 3 - On-state current vs. Power dissipation - Double Side Cooled (Square wave)

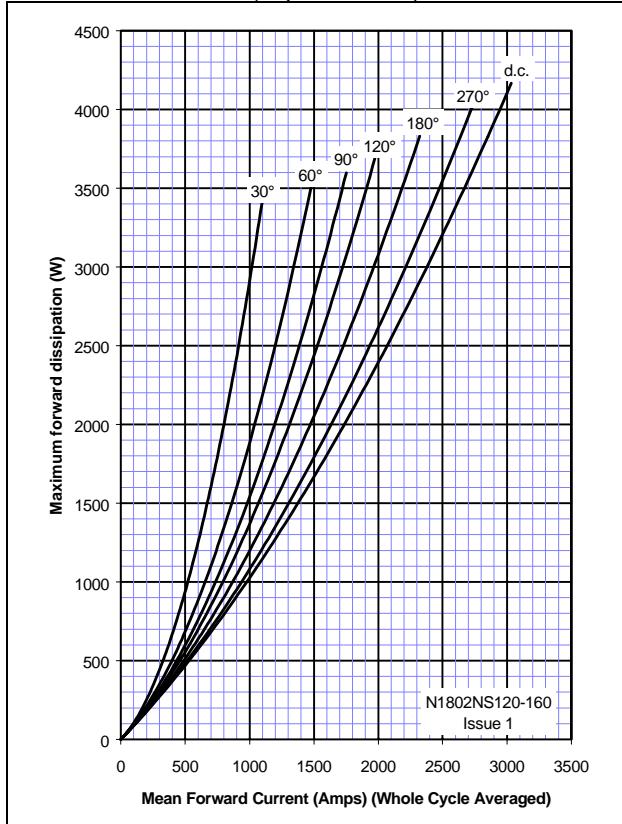


Figure 4 - On-state current vs. Heatsink temperature - Double Side Cooled (Square wave)

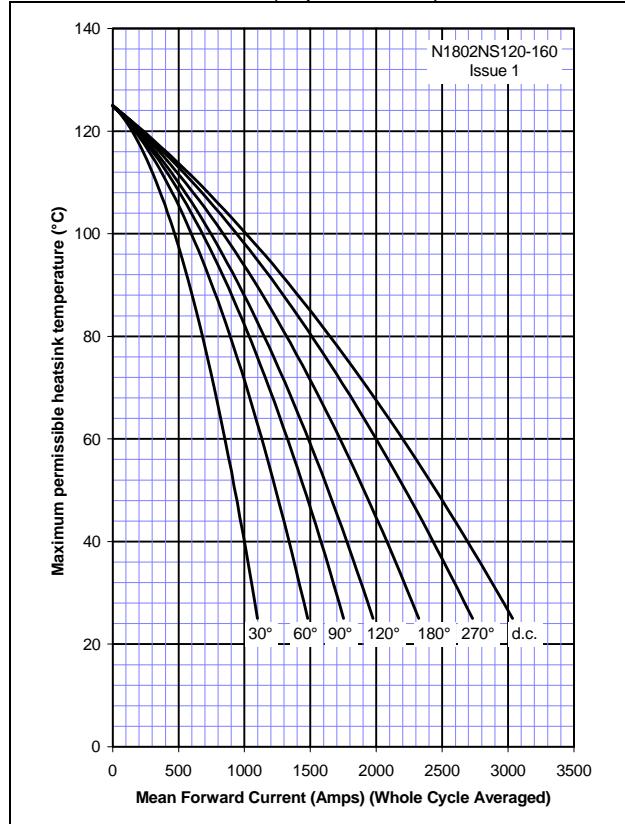


Figure 5 - On-state current vs. Power dissipation - Single Side Cooled (Sine wave)

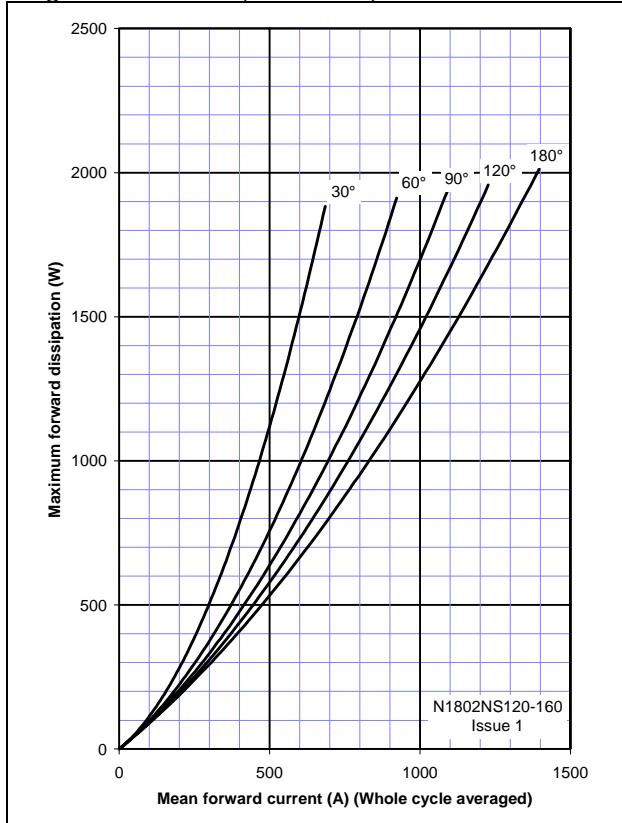


Figure 6 - On-state current vs. Heatsink temperature - Single Side Cooled (Sine wave)

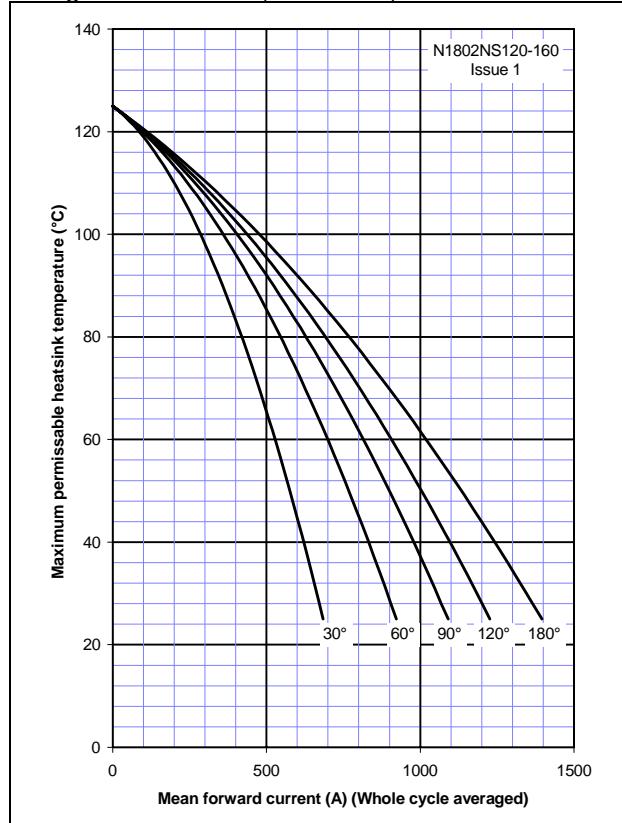


Figure 7 - On-state current vs. Power dissipation - Single Side Cooled (Square wave)

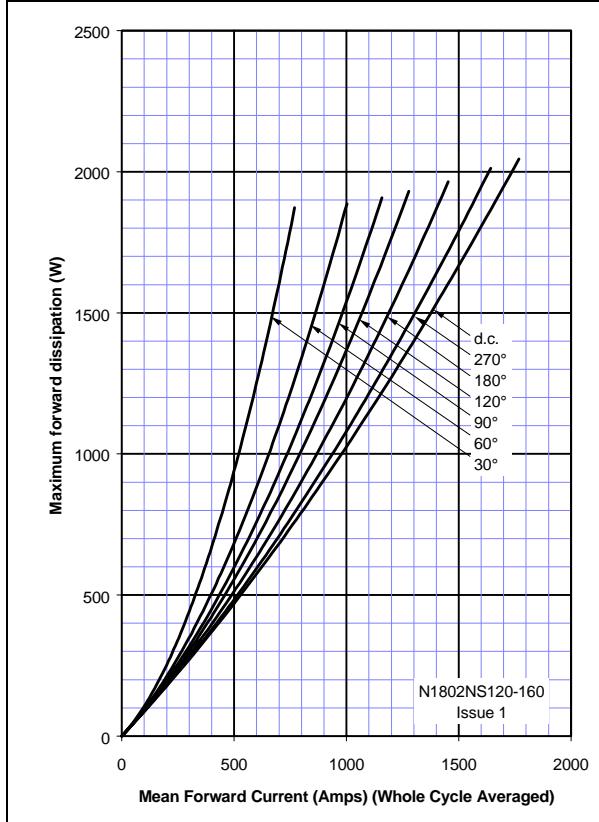


Figure 8 - On-state current vs. Heatsink temperature - Single Side Cooled (Square wave)

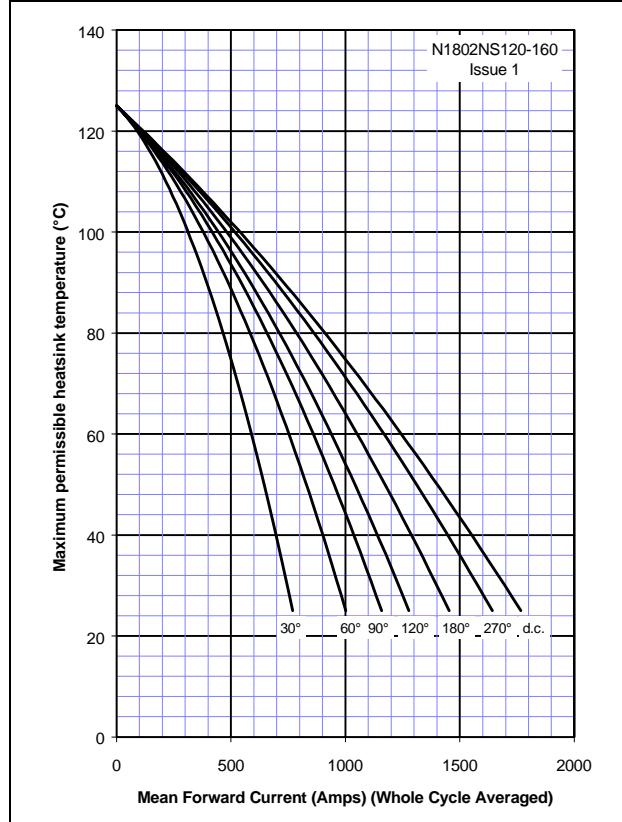


Figure 9 - On-state characteristics of Limit device

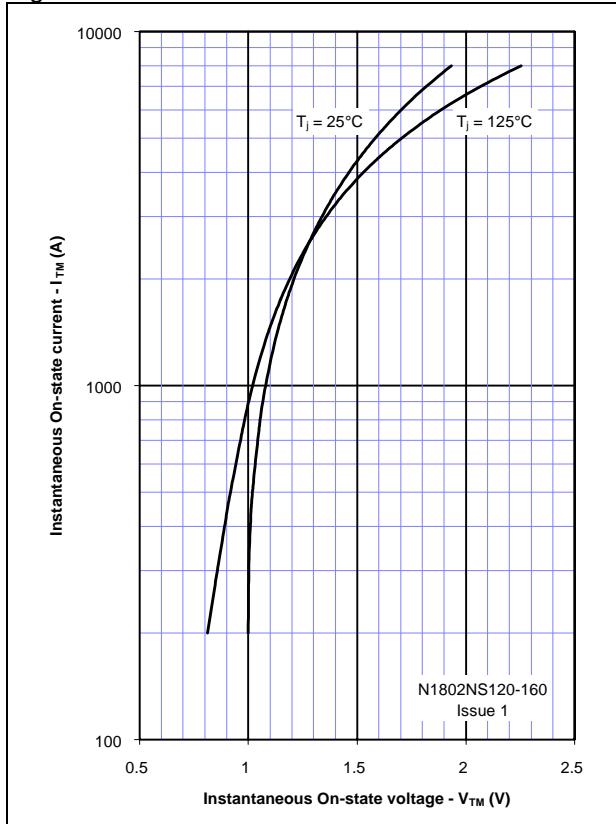


Figure 10 - Transient Thermal Impedance

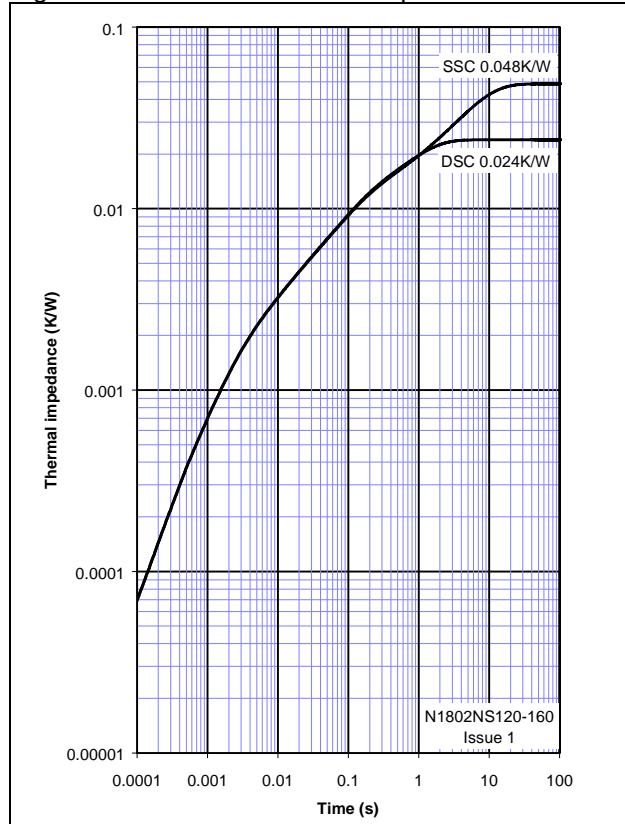


Figure 11 - Gate Characteristics - Trigger Limits

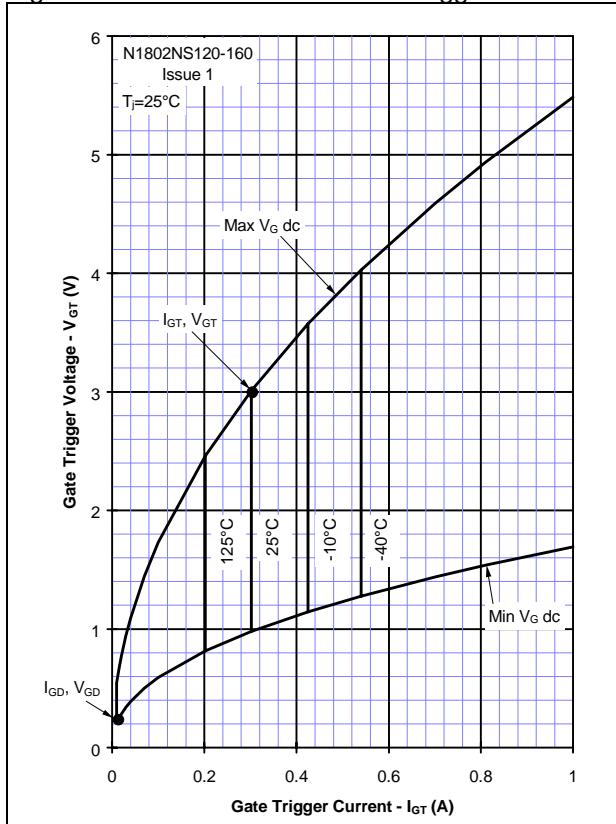


Figure 12 - Gate Characteristics - Power Curves

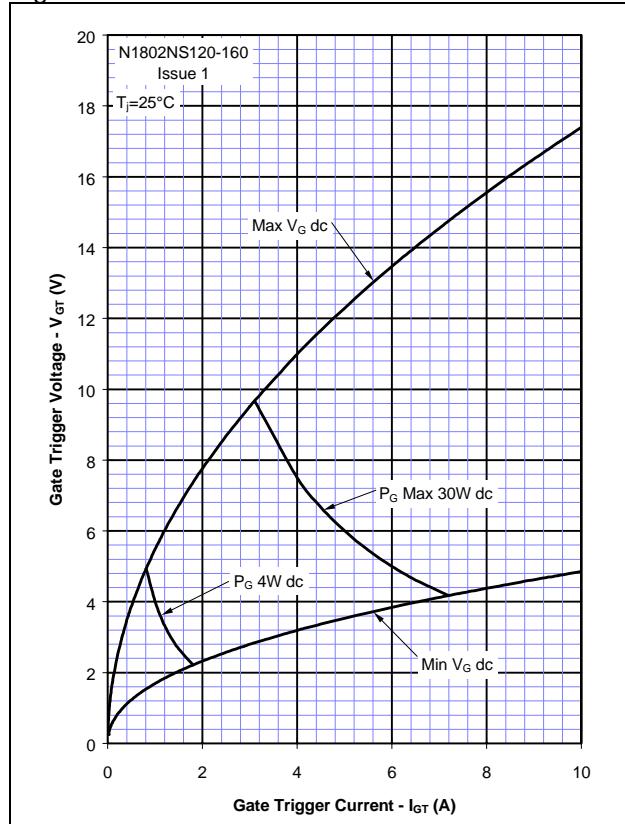
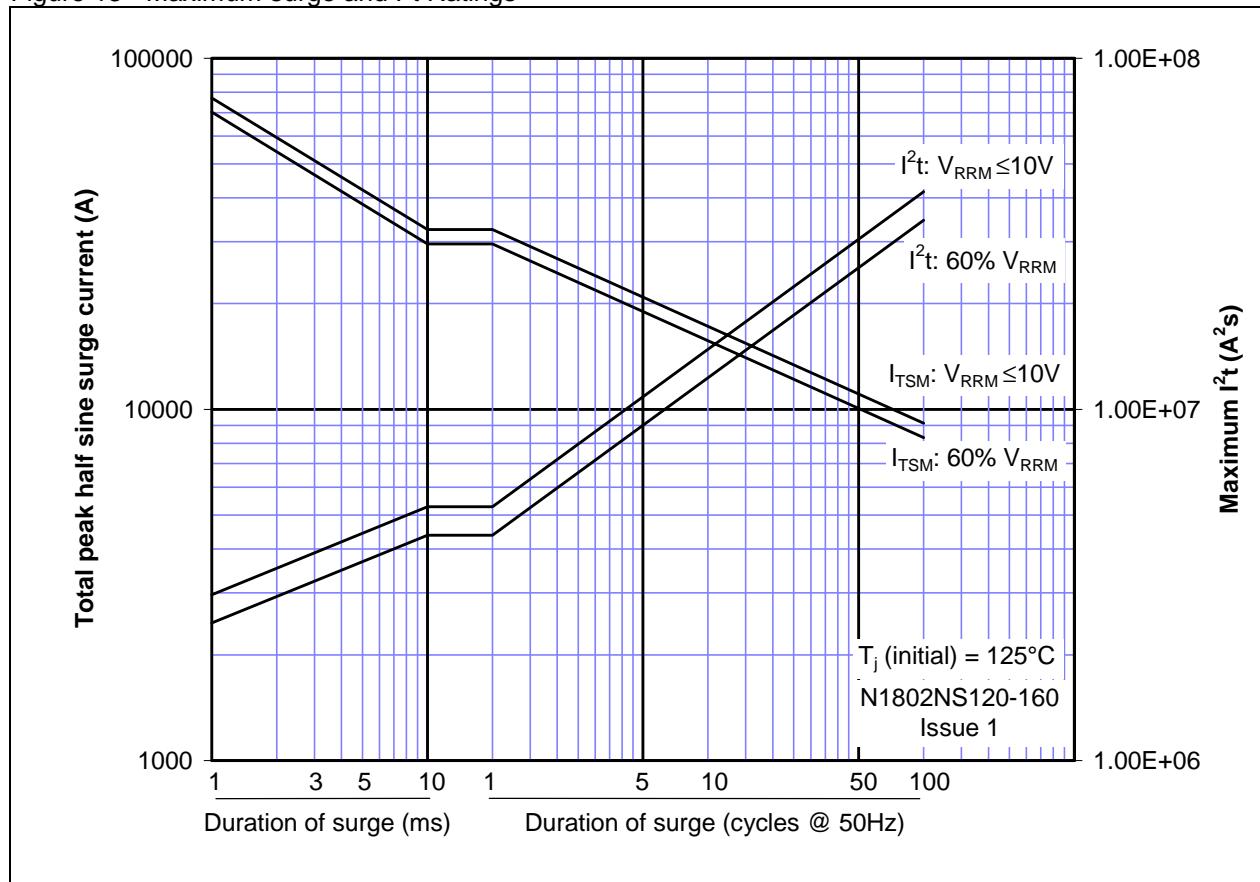


Figure 13 - Maximum surge and I^2t Ratings

Outline Drawing & Ordering Information