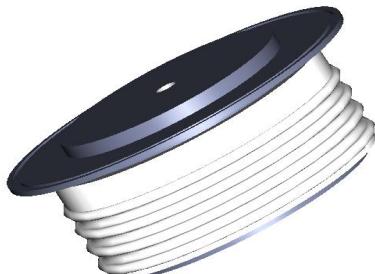


GPDN2167



BLOCKING VOLTAGE UP TO 1800 V
AVERAGE CURRENT 1670 A
SURGE CURRENT 20 kA

BLOCKING CHARACTERISTICS

Characteristic	Conditions	Value
V _{RRM}	Repetitive peak reverse voltage	1800 V
V _{RSM}	Non-repetitive peak reverse voltage	1900 V
I _{RRM}	Repetitive peak reverse current, max.	70 mA

FORWARD CHARACTERISTICS

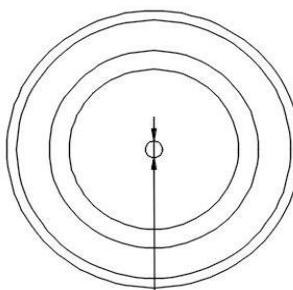
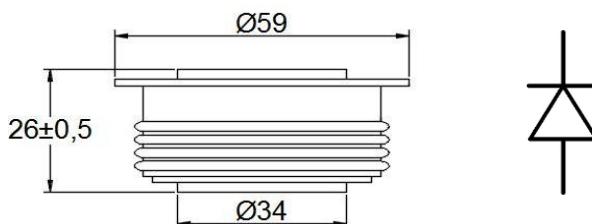
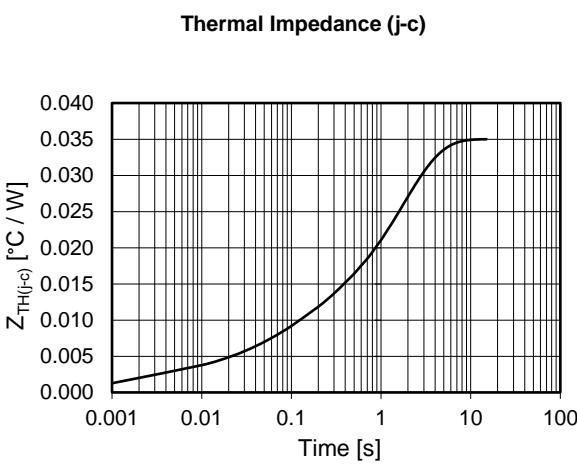
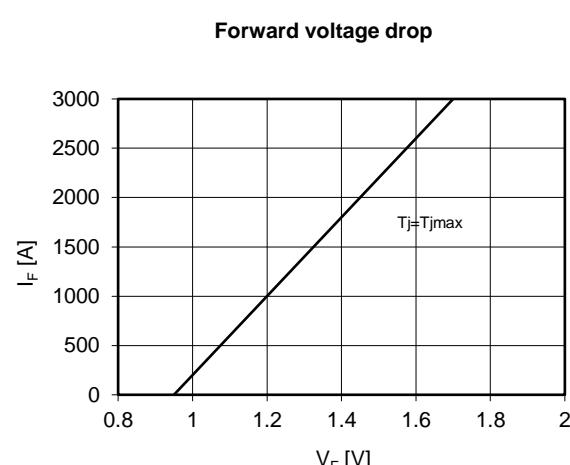
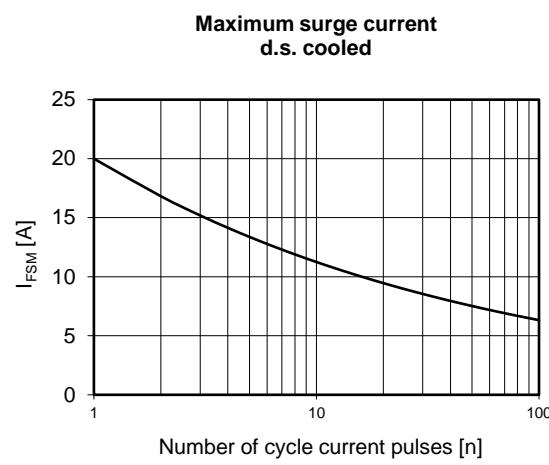
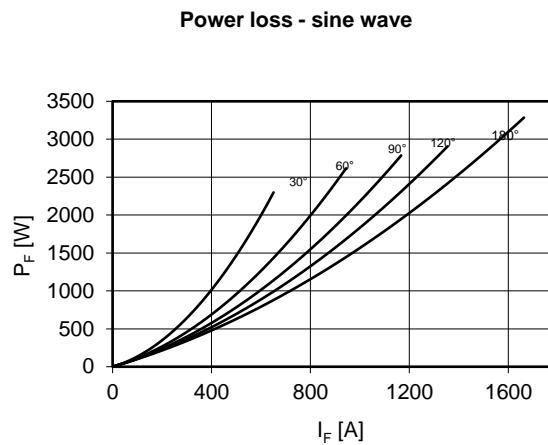
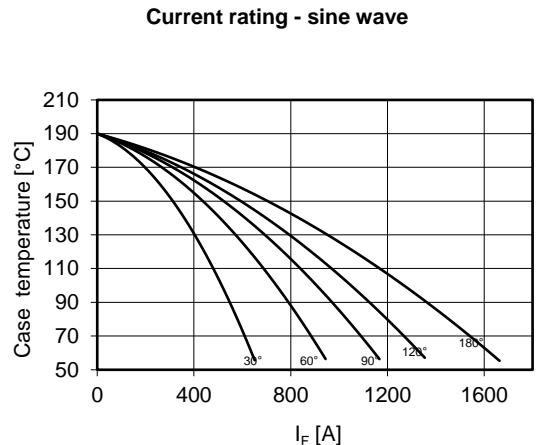
I _{F(AV)}	Average forward current	Sine wave, 180° conduction, Th = 55°C	1670 A
I _{F(RMS)}	R.M.S. forward current	Sine wave, 180° conduction, Th = 55°C	2623 A
I _{FSM}	Surge forward current	Non rep. half sine wave, 50 Hz, V _R = 0 V, T _j = T _{jmax}	20 kA
I ² t	I ² t for fusing coordination		2000 kA ² s
V _{F(TO)}	Threshold voltage	T _j = T _{jmax}	0.95 V
r _F	Forward slope resistance	T _j = T _{jmax}	0.25 mΩ
V _{FM}	Peak forward voltage, max	Forward current I _F = 2000 A, T _j = T _{jmax}	1.45 V

SWITCHING CHARACTERISTICS

Q _{rr}	Rverse recovery charge, typ	T _j = T _{jmax} , I _F = A, di/dt = A/μs	μC
I _{rr}	Reverse recovery current		A

THERMAL AND MECHANICAL CHARACTERISTICS

R _{th(j-c)}	Thermal resistance (junction to case)	Double side cooled	0.035 °C/W
R _{th(c-h)}	Thermal resistance (case to heatsink)	Double side cooled	0.006 °C/W
T _{jmax}	Max operating junction temperature		190 °C
T _{stg}	Storage temperature		-40 / 190 °C
F	Clamping force ± 10%		15 kN
	Mass		280 g



$\varnothing 3,5 \pm 0,2 \times 3,5 \pm 0,2$
Both sides

dimensions mm

Ordering information GPDN2167-VV

VV: blocking voltage / 100 (e.g. 18 for 1800 V)

In the interest of product improvement Green Power Solutions reserves the right to change any specification given in this data sheet without notice.