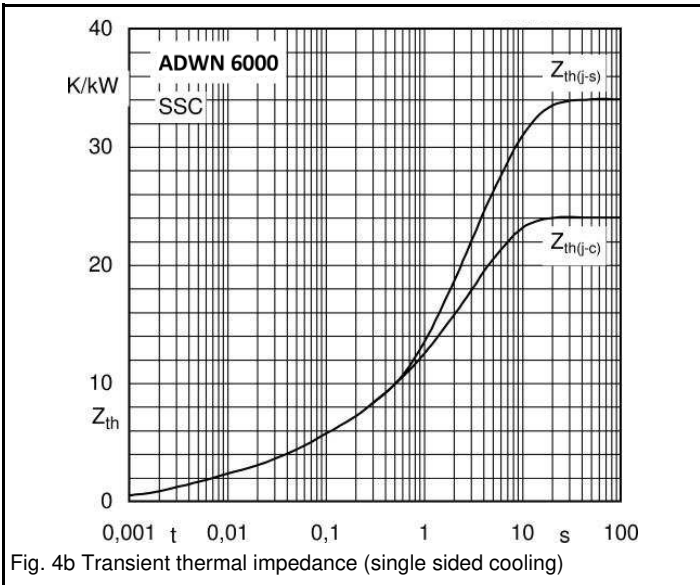
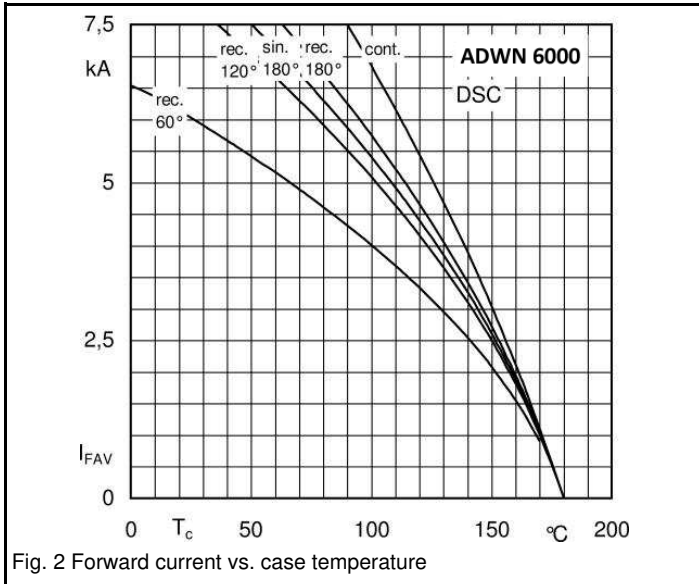
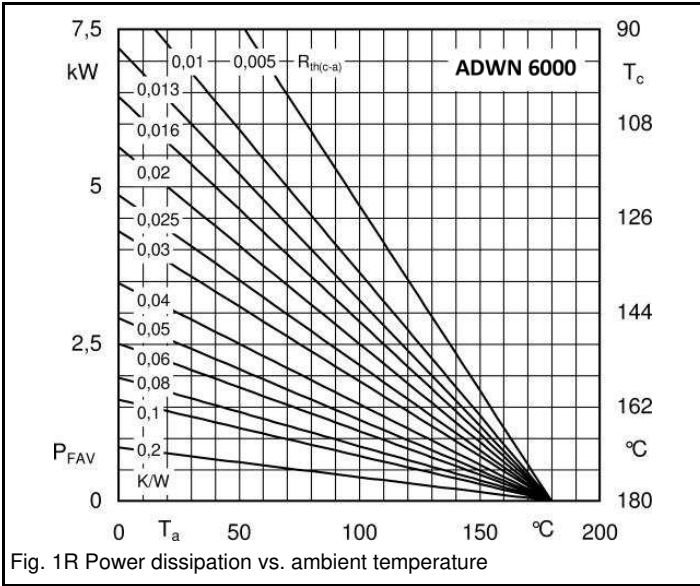
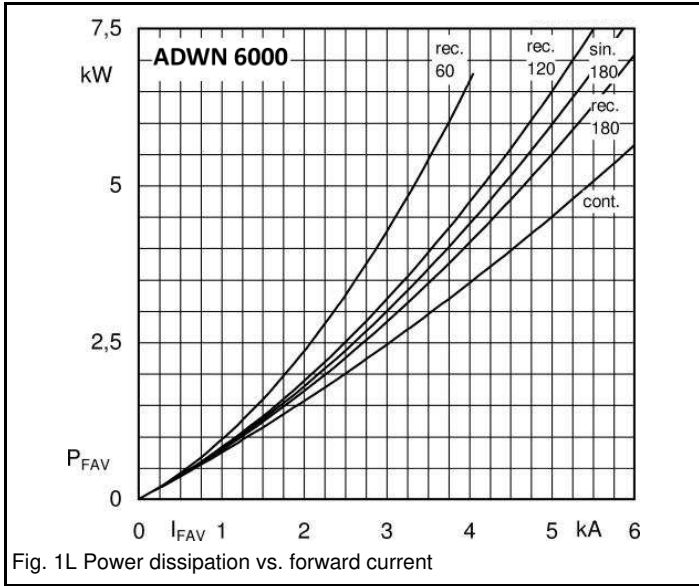


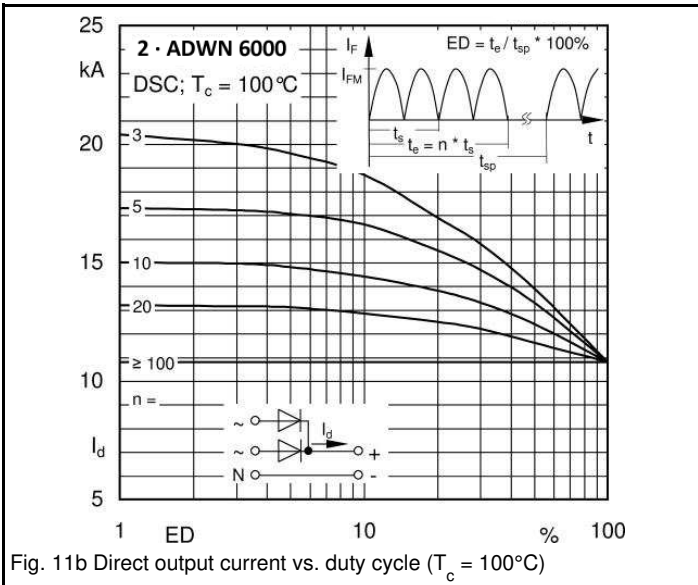
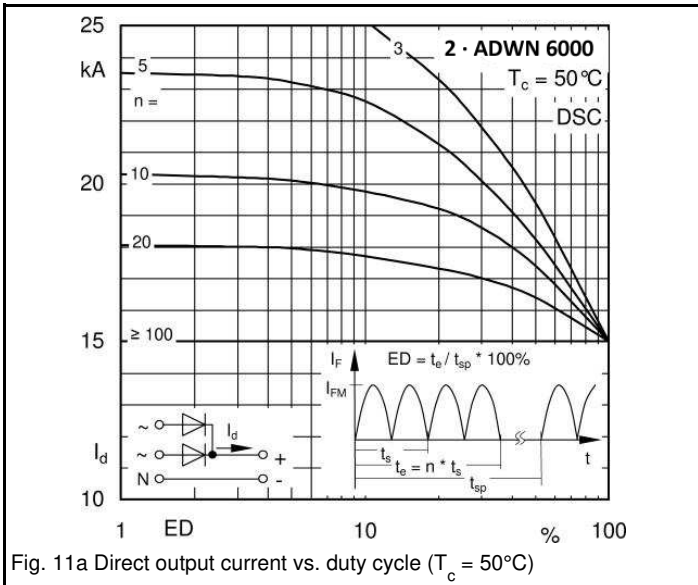
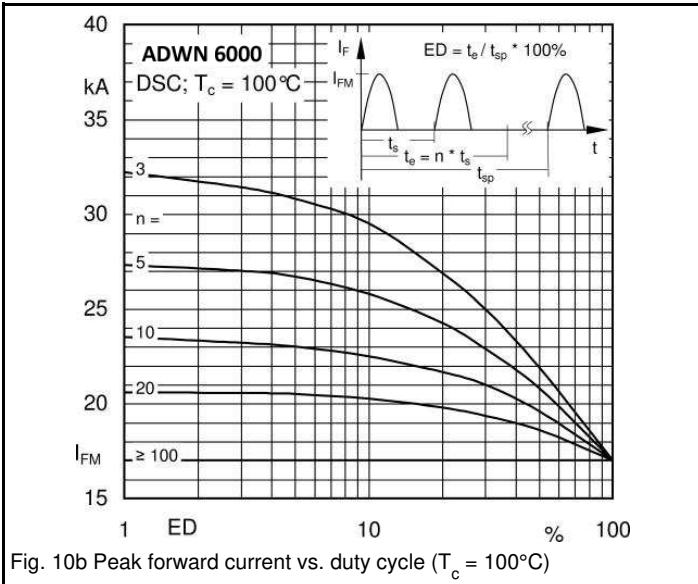
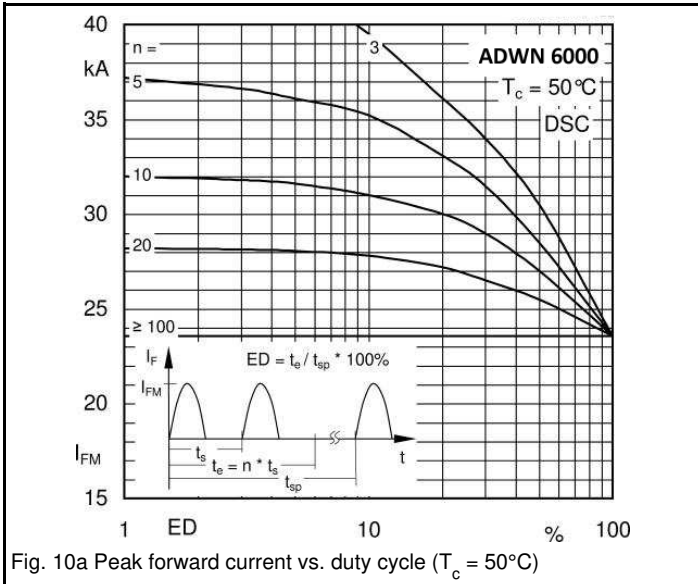
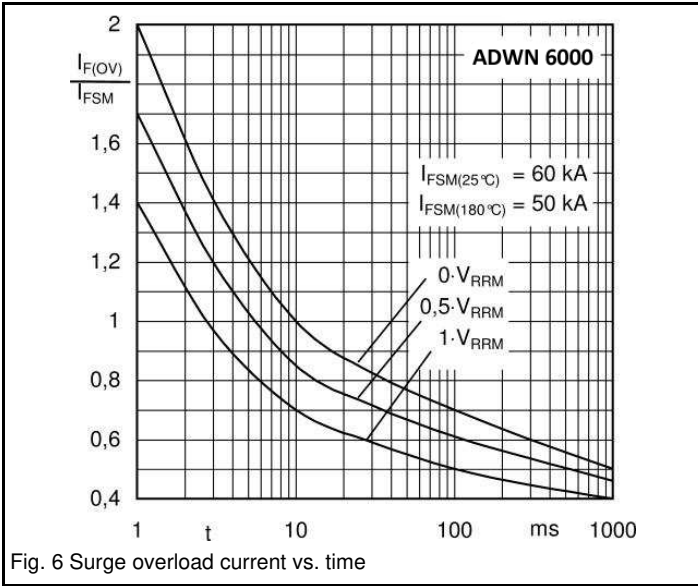
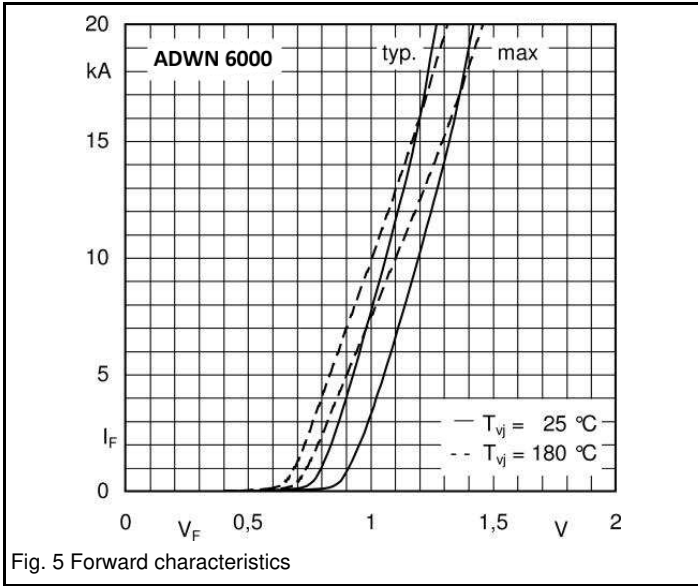
# Rectifier Diode ADWN 6000



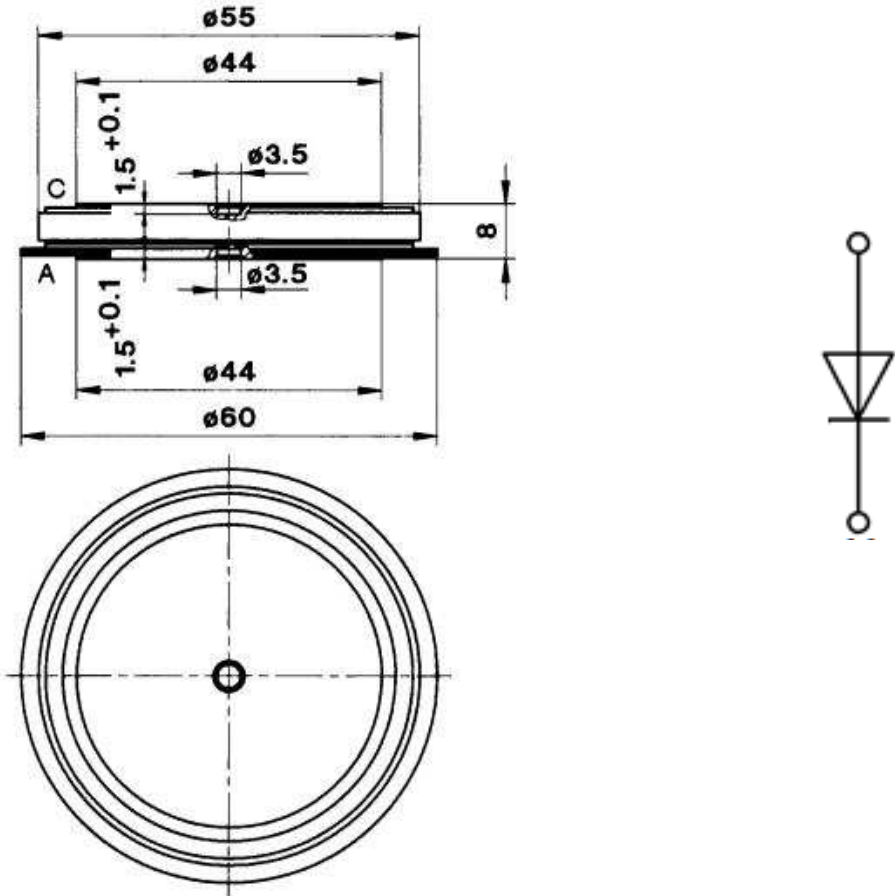
$V_{RSM}$ V	$V_{RRM}$ V	$I_{FRMS} = 10000$ A (maximum value for continuous operation) $I_{FAV} = 6000$ A (sin. 180; $T_C = 85^\circ\text{C}$ )		
200	200	ADWN 6000-02		
400	400	ADWN 6000-04		
600	600	ADWN 6000-06		

Symbols and parameters			Values	Units
$I_{FAV}$	Mean forward current	sin 180; DSC; $T_C = 85$ (100) $^\circ\text{C}$	6000 (5400)	A
$I_{FSM}$	Surge forward current	$T_{vj} = 25^\circ\text{C}$ ; 10 ms $T_{vj} = 180^\circ\text{C}$ ; 10 ms	60000 50000	A A
$i^2t$	$i^2t$ value, rating for fusing	$T_{vj} = 25^\circ\text{C}$ ; 8.3...10 ms $T_{vj} = 180^\circ\text{C}$ ; 8.3...10 ms	18000000 12500000	$\text{A}^2\text{s}$ $\text{A}^2\text{s}$
$V_F$	Forward voltage	$T_{vj} = 25^\circ\text{C}$ ; $I_F = 14000$ A	max. 1.3	V
$V_{(TO)}$	On-state threshold voltage	$T_{vj} = 180^\circ\text{C}$	max. 0.7	V
$r_T$	On-state slope resistance	$T_{vj} = 180^\circ\text{C}$	max. 0.04	$\text{m}\Omega$
$I_{RD}$	Direct reverse current	$T_{vj} = 180^\circ\text{C}$ ; $V_{RD} = V_{RRM}$	max. 100	mA
$R_{th(j-c)}$	Thermal resistance, junction to case	DSC / SSC	0.012 / 0.024	K/W
$R_{th(c-s)}$	Thermal resistance, junction to heatsink	DSC / SSC	0.005 / 0.01	K/W
$T_{vj}$	(Virtual) junction temperature		-40 ... +180	$^\circ\text{C}$
$T_{stg}$	Storage temperature range		-40 ... +150	$^\circ\text{C}$
$V_{isol}$	Insulation test voltage (r.m.s.)		-	V $\sim$
<b>F</b>	Mounting force		24...30	kN
<b>a</b>	Maximum allowable acceleration		-	$\text{m/s}^2$
<b>W</b>	Weight		130	g





DIMENSIONS



Dimensions in mm