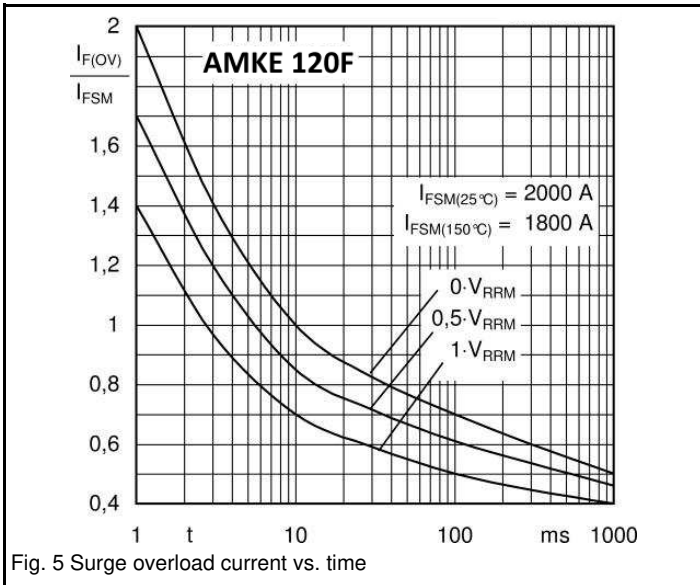
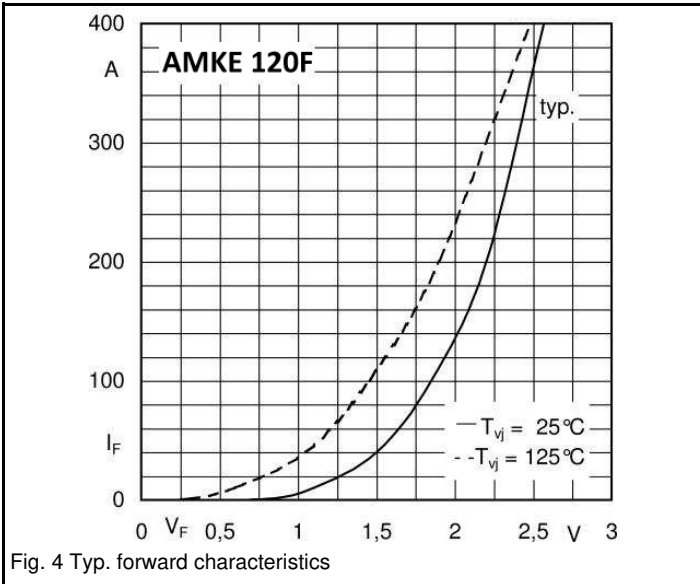
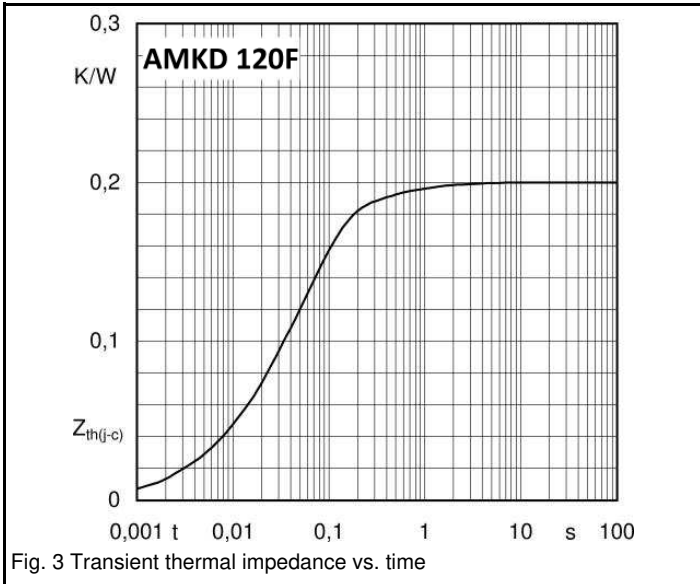
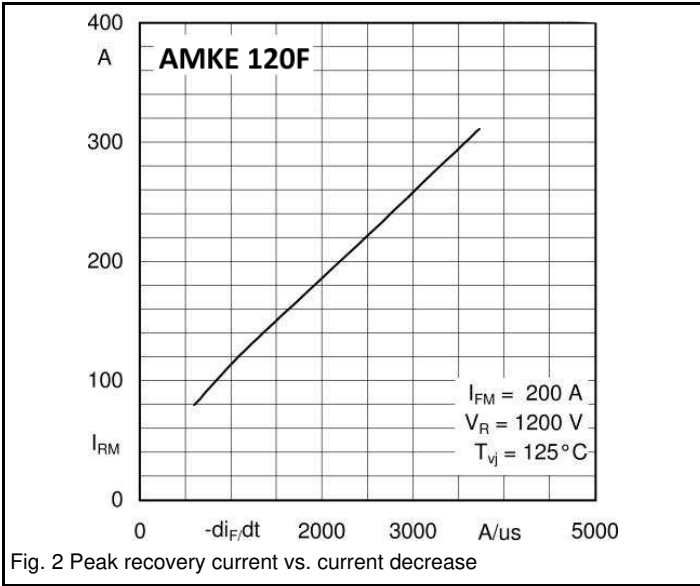
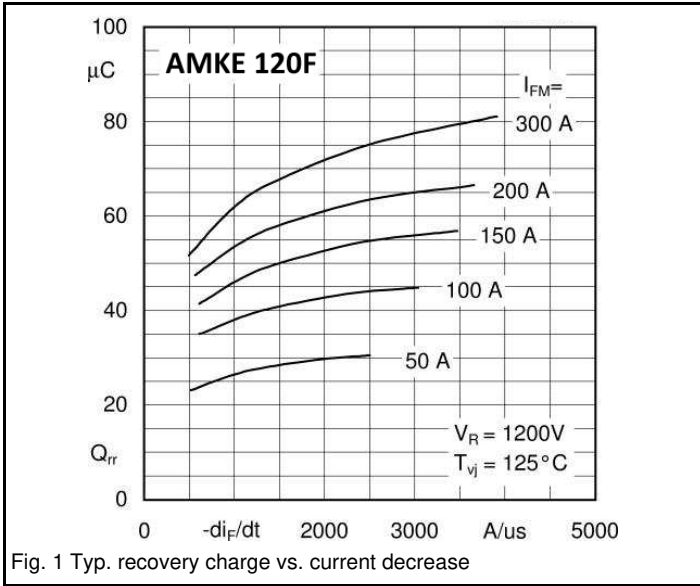


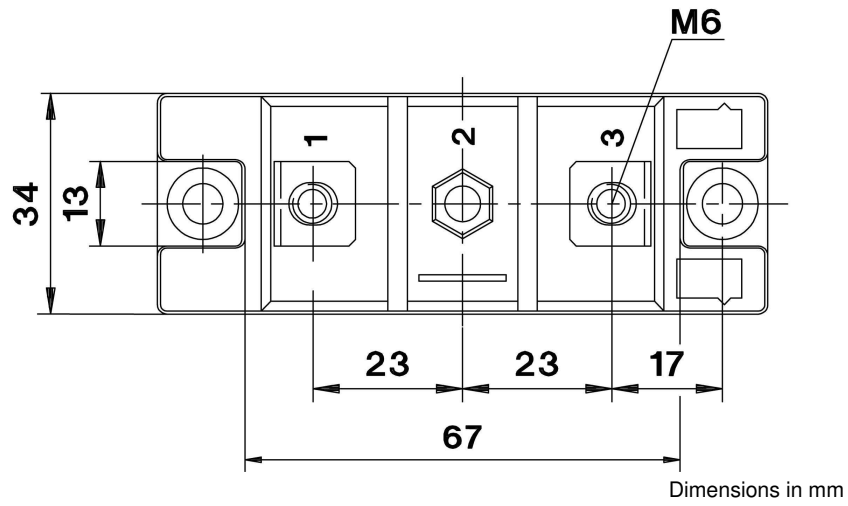
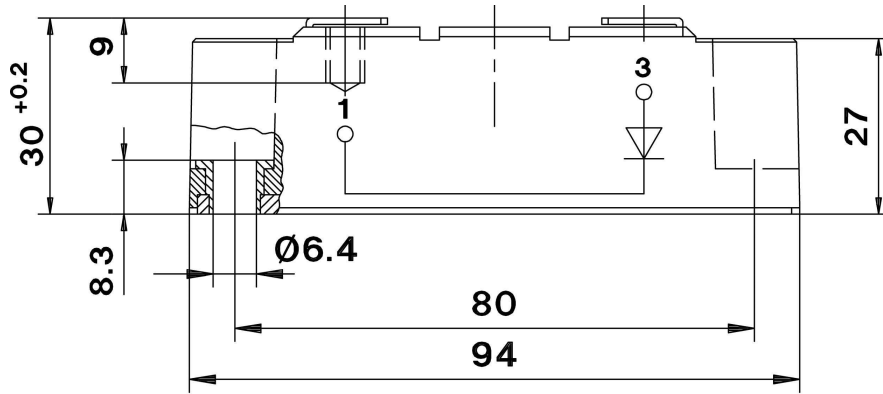


V_{RSM} V	V_{RRM} V	$I_{FRMS} = 220$ A (maximum value for continuous operation) $I_{FAV} = 120$ A (sin. 180; 50 Hz; $T_C = 82^\circ\text{C}$)		
1700	1700	AMKE 120-F17		

Symbols and parameters			Values	Units
I_{FAV}	Mean forward current	sin 180; $T_C = 85$ (100) $^\circ\text{C}$	116 (87)	A
I_{FSM}	Surge forward current	$T_{vj} = 25^\circ\text{C}$; 10 ms $T_{vj} = 150^\circ\text{C}$; 10 ms	2000 1800	A A
i^2t	i^2t value, rating for fusing	$T_{vj} = 25^\circ\text{C}$; 8.3...10 ms $T_{vj} = 150^\circ\text{C}$; 8.3...10 ms	20000 16200	A^2s A^2s
V_F	Forward voltage	$T_{vj} = 25^\circ\text{C}$; $I_F = 200$ A	max. 2.7	V
$V_{(TO)}$	On-state threshold voltage	$T_{vj} = 150^\circ\text{C}$	max. 1.5	V
r_T	On-state slope resistance	$T_{vj} = 150^\circ\text{C}$	max. 4.5	$\text{m}\Omega$
I_{RD}	Direct reverse current	$T_{vj} = 25^\circ\text{C}$; $V_{RD} = V_{RRM}$ $T_{vj} = 125^\circ\text{C}$; $V_{RD} = V_{RRM}$	max. 0.4 max. 50	mA mA
Q_{rr}	Reverse recovery charge		41	μC
I_{RM}	Peak reverse recovery current	$T_{vj} = 125^\circ\text{C}$ $I_F = 120$ A	110	A
t_{rr}	Reverse recovery time	$di/dt_{\text{off}} = 1000$ A/ μs $V_R = 1200$ V	1020	ns
E_{rr}	Energy dissipation during reverse recovery		10	mJ
$R_{th(j-c)}$	Thermal resistance, junction to case		0.2	K/W
$R_{th(c-s)}$	Thermal resistance, junction to heatsink		0.05	K/W
T_{vj}	(Virtual) junction temperature		-40 ... +150	$^\circ\text{C}$
T_{stg}	Storage temperature range		-40 ... +125	$^\circ\text{C}$
V_{isol}	Insulation test voltage (r.m.s.)	a.c. 50 Hz; r.m.s.; 1s / 1min.	4800 / 4000	V \sim
M_S	Mounting torque on heatsink		$5 \pm 15\%$	Nm
M_t	Mounting torque for terminals		$5 \pm 15\%$	Nm
a	Maximum allowable acceleration		$5 * 9.81$	m/s^2
W	Weight		160	g



DIMENSIONS



Dimensions in mm

TOPOLOGY OF INTERNAL CONNECTION

