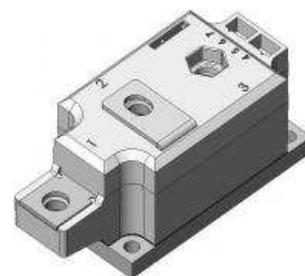


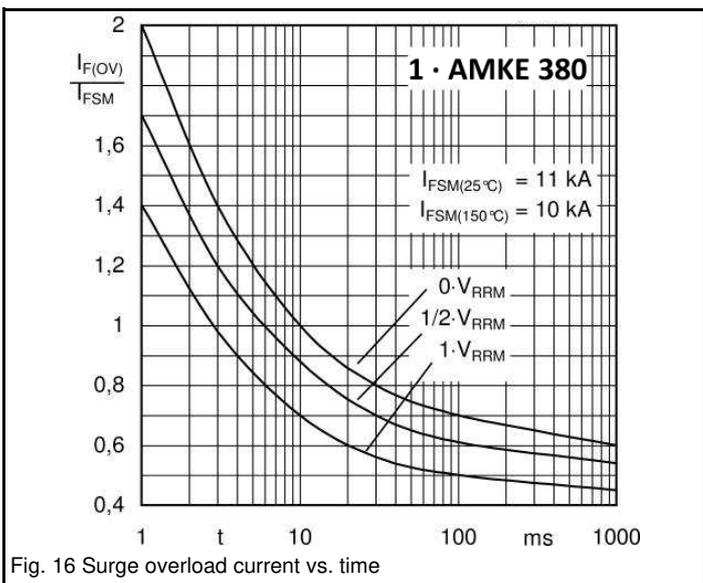
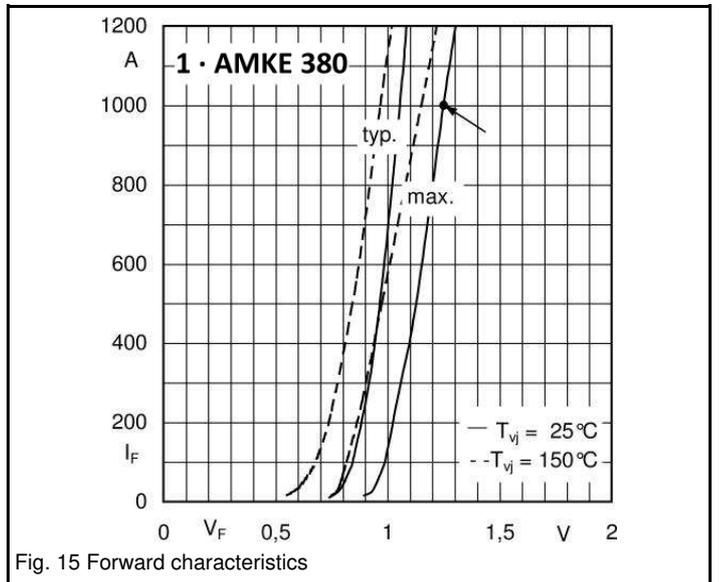
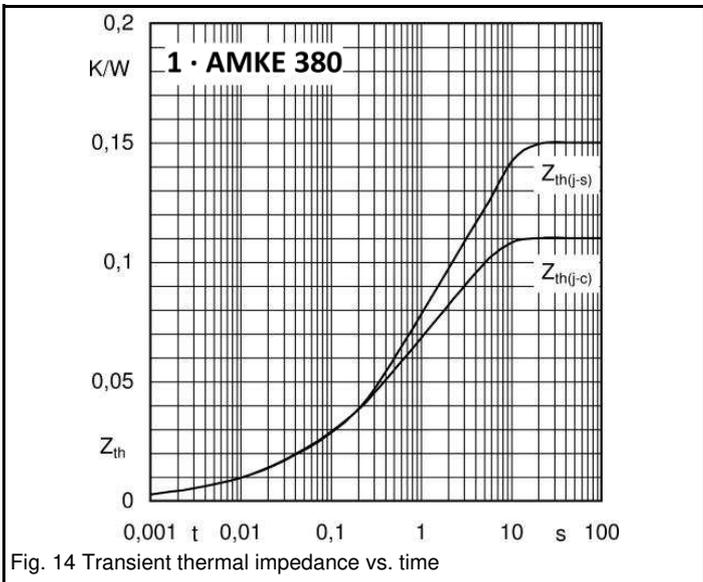
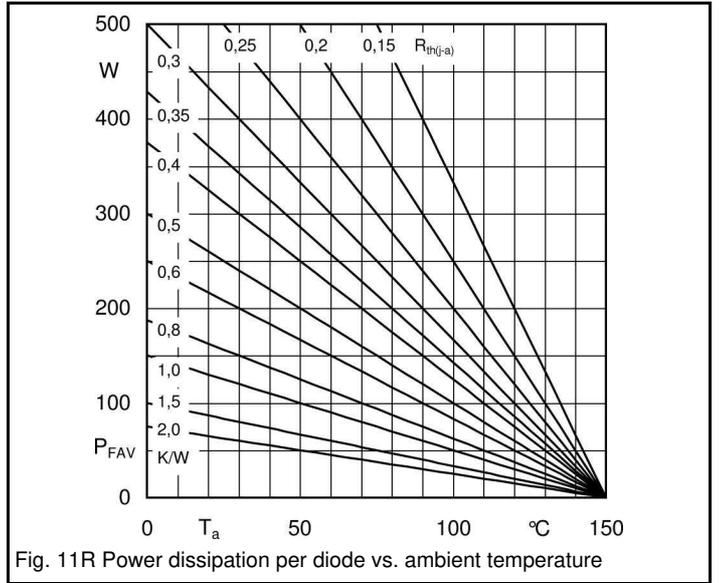
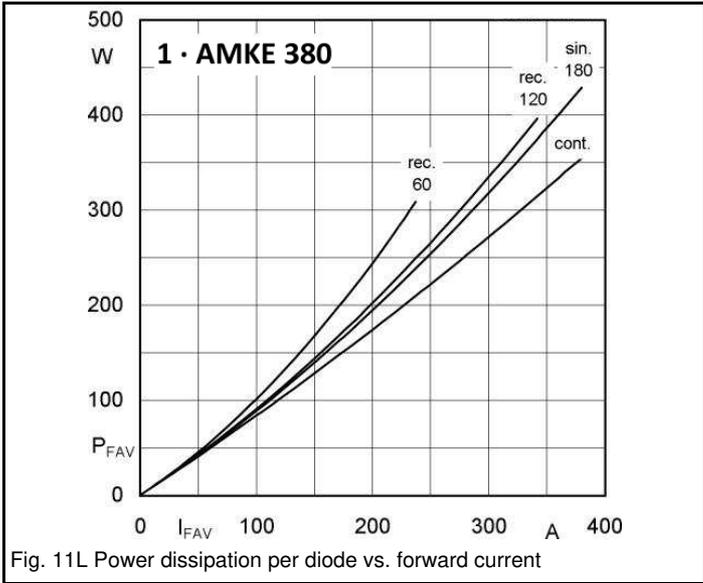
# Rectifier Diode Modules

## AMKE 380

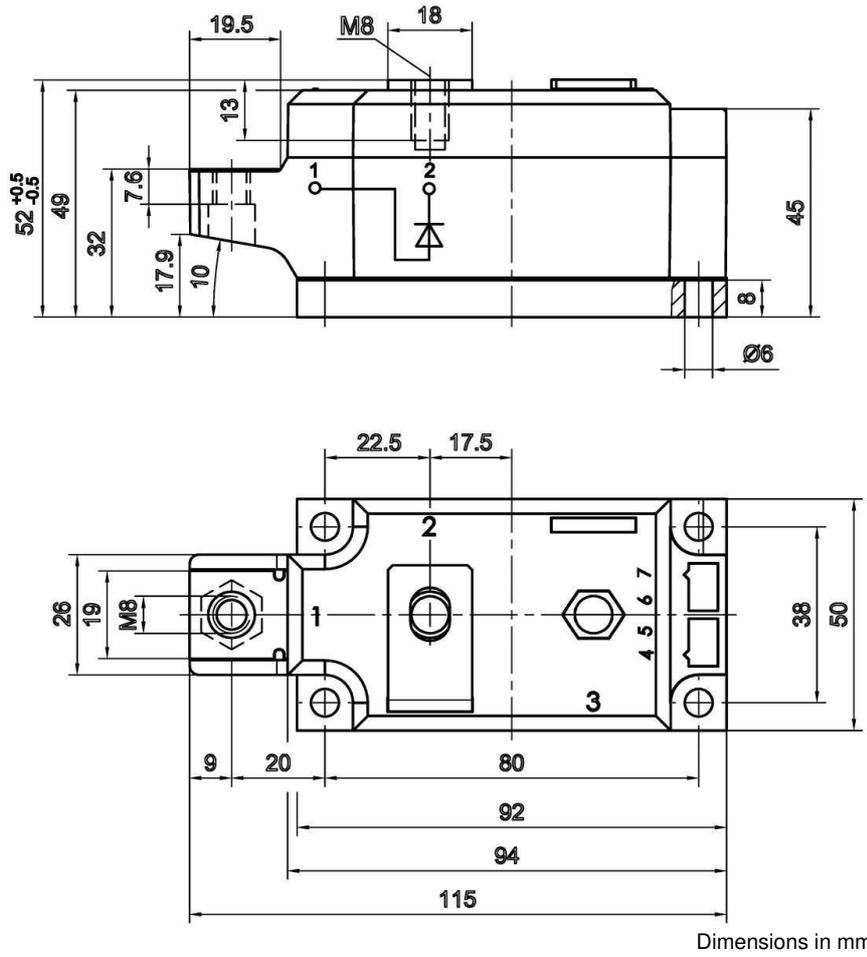


$V_{RSM}$ V	$V_{RRM}, V_{DRM}$ V	$I_{FRMS} = 930$ A (maximum value for continuous operation) $I_{FAV} = 600$ A (sin. 180; $T_C = 100^\circ\text{C}$ )		
1300	1200	AMKE 380-12		
1700	1600	AMKE 380-16		

Symbols and parameters			Values	Units
$I_{FAV}$	Mean forward current	sin 180; $T_C = 100^\circ\text{C}$	380	A
$I_{FSM}$	Surge forward current	$T_{vj} = 25^\circ\text{C}; 10$ ms $T_{vj} = 150^\circ\text{C}; 10$ ms	11000 10000	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	605000 500000	$\text{A}^2\text{s}$ $\text{A}^2\text{s}$
$V_F$	Forward voltage	$T_{vj} = 25^\circ\text{C}; I_F = 1000$ A	max. 1.25	V
$V_{(TO)}$	On-state threshold voltage	$T_{vj} = 150^\circ\text{C}$	max. 0.8	V
$r_T$	On-state slope resistance	$T_{vj} = 150^\circ\text{C}$	max. 0.35	$\text{m}\Omega$
$I_{RD}$	Direct reverse current	$T_{vj} = 150^\circ\text{C}; V_{RD} = V_{RRM}$	max. 10	mA
$R_{th(j-c)}$	Thermal resistance, junction to case	cont.; per diode = per module sin.180; per diode = per module	0.11 0.116	K/W K/W
$R_{th(c-s)}$	Thermal resistance, junction to heatsink	per diode = per module	0.04	K/W
$T_{vj}$	(Virtual) junction temperature		-40 ... +150	$^\circ\text{C}$
$T_{stg}$	Storage temperature range		-40 ... +130	$^\circ\text{C}$
$V_{isol}$	Insulation test voltage (r.m.s.)	a.c. 50 Hz; r.m.s.; 1s / 1min.	3600 / 3000	V~
$M_s$	Mounting torque on heatsink		$5 \pm 15\%$	Nm
$M_t$	Mounting torque for terminals		$9 \pm 15\%$	Nm
$a$	Maximum allowable acceleration		$5 * 9.81$	$\text{m/s}^2$
$W$	Weight		550	g



## DIMENSIONS



## TOPOLOGY OF INTERNAL CONNECTION

