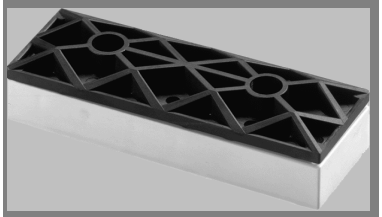
SKiiP 83 AH 15 T1



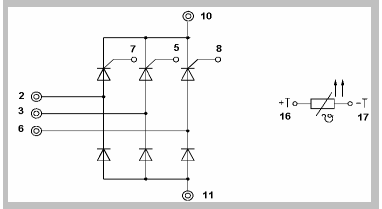
MiniSKiiP 8

Absolute Maximum Ratings			
Symbol	**Conditions [1)]**	**Values**	**Units**
Bridge rectifier			
V_{RRM}		1500	V
I_D	$T_{heatsink}$ = 80 °C	125 [3)]	A
I_{FSM}/I_{TSM}	t_p = 10 ms; sin. 180°C, T_j = 25°C	1000	A
I^2t	t_p = 10 ms; sin. 180°C, T_j = 25°C	5000	A^2s
T_j	Diode	-40…+150	°C
T_j	Thyristor	-40…+125	°C
T_{stg}		-40…+125	°C
V_{isol}	AC, 1 min.	2500	V

MiniSKiiP 8
SEMIKRON integrated intelligent Power

SKiiP 83 AH 15 T1
3-phase bridge rectifier

Preliminary Data



Characteristics					
Symbol	**Conditions [1)]**	**min.**	**typ.**	**max.**	**Units**
Diode - Rectifier					
V_F	I_F = 100A T_j = 125 °C	-	1,15	-	V
V_{TO}	Tj = 125 °C	-	0,8	-	V
r_T	Tj = 125 °C	-	3,5	-	mΩ
R_{thjh}	per Diode	-	-	0,7	K/W
Thyristor - Rectifier					
V_T	I_F = 120A T_j = 125 °C	-	-	1,8	V
$V_{T(TO)}$	Tj = 125 °C	-	-	1,1	V
r_T	Tj = 125 °C	-	-	5	mΩ
R_{thjh}	per Thyristor	-	-	0,9	K/W
I_{GD}	Tj = 125 °C	5	-	-	mA
V_{GT}	Tj = 25 °C	-	-	3	V
I_{GT}	Tj = 25 °C	-	-	150	mA
I_H	Tj = 25 °C	-	250	-	mA
I_L	Tj = 25 °C	-	600	-	mA
dv/dt_{CR}	Tj = 125 °C	500	-	-	V/µs
di/dt_{CR}	Tj = 125 °C	-	-	125	V/µs
Temperature Sensor					
R_{TS}	T = 25 / 100°C		1000 / 1670		Ω
Mechanical Data					
M_1	case to heatsink, SI Units	2,5	-	3,5	Nm
Case			M8a		

UL recognized file no. E63532

[1)] $T_{heatsink}$ = 25°C, unless otherwise specified
[2)] CAL = Controllesd Axial Lifetime Technology (soft and fast recovery)
[3)] Limited to 100 A by terminals