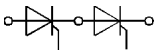
V_{RSM}	V_{RRM} V_{DRM}	$(dv/dt)_{cr}$	I_{TRMS} (maximum value for continuous operation) 40 A		
			I_{TAV} (sin. 180; T_{case} = 60 °C) 25 A		
V	V	V/µs			
700	600	500	**SKKT 19/06 D**	**SKKT 20/06 D**	–
900	800	500	**SKKT 19/08 D**	**SKKT 20/08 D**	**SKKT 20B08 D**
1300	1200	1000	**SKKT 19/12 E**	**SKKT 20/12 E**	**SKKT 20B12 E**
1500	1400	1000	**SKKT 19/14 E**	**SKKT 20/14 E**	**SKKT 20B14 E**
1700	1600	1000	**SKKT 19/16 E**	**SKKT 20/16 E**	**SKKT 20B16 E**

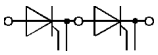
Symbol	**Conditions**		**SKKT 19**	**SKKT 20 SKKT 20B**	**Units**
I_{TAV}	sin. 180;	T_{case} = 60 °C	25		A
		T_{case} = 85 °C	18		A
I_D	B2/B6	T_{amb} = 45 °C; P 3/180	31 / 38		A
		T_{amb} = 35 °C; P 3/180 F	46 / 60		A
I_{RMS}	W1/W3	T_{amb} = 45 °C; P 3/180	42 / 3 x 30		A
I_{TSM}	T_{vj} = 25 °C; 10 ms		320		A
	T_{vj} = 125 °C; 10 ms		280		A
i^2t	T_{vj} = 25 °C; 8,3 ... 10 ms		510		A^2s
	T_{vj} = 125 °C; 8,3 ... 10 ms		390		A^2s
t_{gd}	T_{vj} = 25 °C; I_G = 1 A				
		di_G/dt = 1 A/µs	1		µs
t_{gr}	$V_D = 0{,}67 \cdot V_{DRM}$		1		µs
$(di/dt)_{cr}$	T_{vj} = 125 °C		150		A/µs
t_q	T_{vj} = 125 °C		typ. 80		µs
I_H	T_{vj} = 25 °C; typ./max.		100 / 200		mA
I_L	T_{vj} = 25 °C; R_G = 33 Ω; typ./max.		250 / 400		mA
V_T	T_{vj} = 25 °C; I_T = 75 A		max. 2,3		V
$V_{T(TO)}$	T_{vj} = 125 °C		1,0		V
r_T	T_{vj} = 125 °C		16		mΩ
I_{DD}; I_{RD}	T_{vj} = 125 °C; $V_{RD} = V_{RRM}$				
		$V_{DD} = V_{DRM}$	max. 10		mA
V_{GT}	T_{vj} = 25 °C; d.c.		3		V
I_{GT}	T_{vj} = 25 °C; d.c.		150		mA
V_{GD}	T_{vj} = 125 °C; d.c.		0,25		V
I_{GD}	T_{vj} = 125 °C; d.c.		5		mA
R_{thjc}	cont.	per thyristor / per module	1,2 / 0,6		°C/W
	sin. 180		1,3 / 0,65		°C/W
	rec. 120		1,35 / 0,68		°C/W
R_{thch}			0,2 / 0,1		°C/W
T_{vj}			– 40 ... + 125		°C
T_{stg}			– 40 ... + 125		°C
V_{isol}	a. c. 50 Hz; r.m.s; 1 s/1 min		3600 / 3000		V~
M_1	to heatsink	SI (US) units	5 (44 lb. in.) ± 15 %[1)]		Nm
M_2	to terminals		3 (26 lb. in.) ± 15 %		Nm
a			$5 \cdot 9{,}81$		m/s^2
w	approx.		95		g
Case	→ page B 1 – 95		SKKT 19: A 5 SKKT 20: A 46 SKKT 20B: A 48		

SEMIPACK® 1
Thyristor Modules

SKKT 19
SKKT 20
SKKT 20B



SKKT 19



SKKT 20
SKKT 20B

Features

- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- UL recognized, file no. E 63 532

Typical Applications

- DC motor control (e.g. for machine tools)
- AC motor soft starters
- Temperature control (e.g. for ovens, chemical processes)
- Professional light dimming (studios, theaters)

[1)] See the assembly instructions

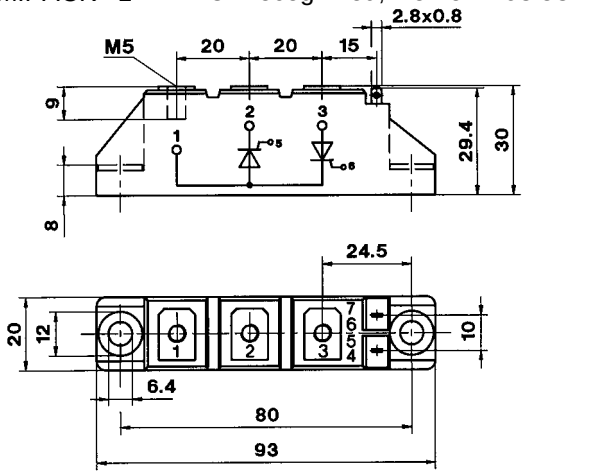
SKKT 19 . . . 105

Case A 5

IEC 192-2: A 77 A
JEDEC: TO-240 AA

SEMIPACK® 1

UL recognized, file no. E 63 532



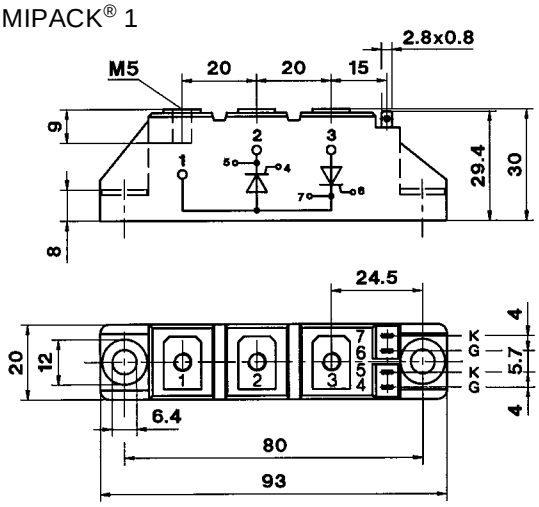
Dimensions in mm

SKKT 20/ . . . 106/

Case A 46

IEC 192-2: A 77 A
JEDEC: TO-240 AA

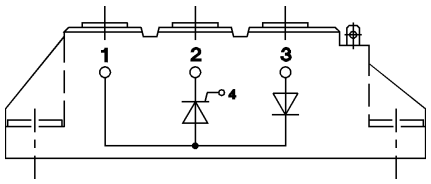
SEMIPACK® 1



Dimensions in mm

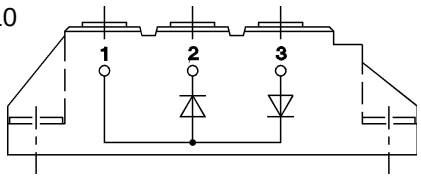
SKKH 26 . . . 105

Case A 6



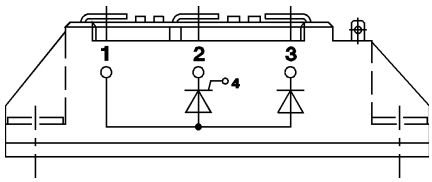
SKKD 26 . . . 100

Case A 10



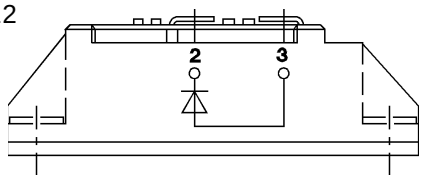
SKNH 56 . . . 91

Case A 7



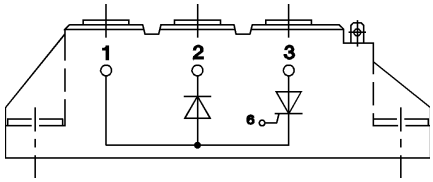
SKKE 81

Case A 12



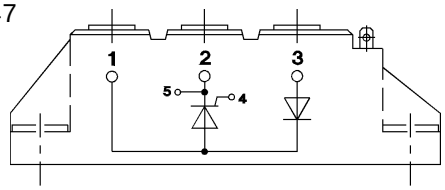
SKKL 56 . . . 105

Case A 9



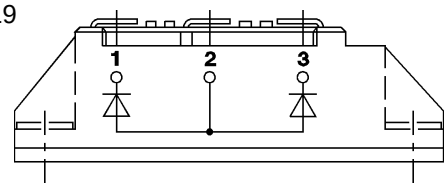
SKKH 27 . . . 106

Case A 47



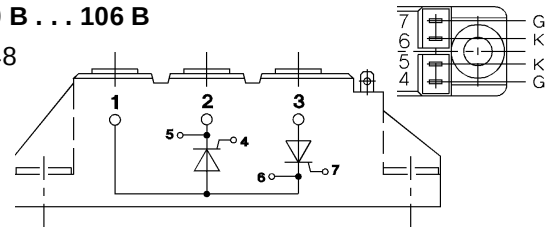
SKND 46 . . . 81

Case A 19



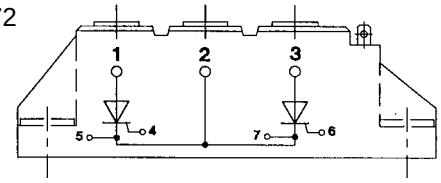
SKKT 20 B . . . 106 B

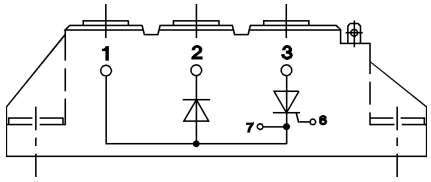
Case A 48



SKMT 92

Case A 72



SKKL 42 . . . 106

Case A 59