V_{RSM} / V_{RRM}	I_{FRMS} (maximum values for continuous operations)					
	200 A		260 A		500 A	
	I_{FAV} (sin. 180; T_{case} = 100 °C)					
	125 A		165 A		320 A	
V						
	SKN	**SKR**	**SKN**	**SKR**	**SKN**	**SKR**
400	**100/04**	**100/04**	**130/04**	**130/04***	**240/04**	**240/04***
800	**100/08**	**100/08**	**130/08**	**130/08***	**240/08**	**240/08***
1200	**100/12**	**100/12**	**130/12**	**130/12***	**240/12**	**240/12***
1400	**100/14**	**100/14**	**130/14**	**130/14***	**240/14**	**240/14***
1600	**100/16**	**100/16**	**130/16**	**130/16***	**240/16**	**240/16***
1800	**100/18◆**	**100/18◆**	**130/18◆**	**130/18◆**	**240/18◆**	**240/18◆**

Symbol	Conditions	SKN 100 SKR 100	SKN 130 SKR 130	SKN 240 SKR 240	Units
I_{FAV}	sin. 180; T_{case} = 100 °C	125	165	320	A
	= 125 °C	100	130	240	A
I_{FSM}	T_{vj} = 25 °C; 10 ms	1 750	2 500	6 000	A
	T_{vj} = 180 °C; 10 ms	1 500	2 000	5 000	A
i^2t	T_{vj} = 25 °C; 8,3 ... 10 ms	15 000	31 000	180 000	A^2s
	T_{vj} = 180 °C; 8,3 ... 10 ms	11 500	20 000	125 000	A^2s
Q_{rr}	T_{vj} = 160 °C; – di_F/dt = 10 A/µs	typ. 100	typ. 120	typ. 200	µC
I_R	T_{vj} = 25 °C; $V_R = V_{RRM}$	1	1	2	mA
	T_{vj} = 180 °C; $V_R = V_{RRM}$	15	22	60	mA
V_F	T_{vj} = 25 °C;	1,55	1,5	1,4	V
	(I_F = ...); max.	(400)	(500)	(750)	(A)
$V_{(TO)}$	T_{vj} = 180 °C	0,85	0,85	0,85	V
r_T	T_{vj} = 180 °C	1,8	1,3	0,6	mΩ
R_{thjc}		0,45	0,35	0,20	°C/W
R_{thch}		0,08	0,08	0,03	°C/W
T_{vj}		– 40 ... + 180			°C
T_{stg}		– 55 ... + 180			°C
M	SI units	10		30	Nm
	US units	90		270	lb.in.
a		5 · 9,81		5 · 9,81	m/s^2
w	approx.	100		250	g
RC	P_R = 2 W	0,25	0,25	0,5	µF
		50	50	30	Ω
R_p	P_R = 20 W	50	50	50	kΩ
Case		E 13	E 14	E 15	

Rectifier Diodes

SKN 100 SKR 100
SKN 130 SKR 130
SKN 240 SKR 240

Features

- Reverse voltages up to 1600 V
- Hermetic metal cases with glass insulators
- Threaded studs ISO M12, M16 x 1,5 (SKR 130 also 1/2 – 20 UNF or 3/8 – 24 UNF, SKR 240 also 3/4 – 16 UNF)
- **SKN**: anode to stud **SKR**: cathode to stud

Typical Applications

- All-purpose mean power rectifier diodes
- Cooling via heatsinks
- Non-controllable and half-controllable rectifiers
- Free-wheeling diodes

◆ available in limited quantities
* available with UNF threads: 3/8 – 24 UNF 2 A (e.g. SKR 130/12 UNF 3/8) or 1/2 – 20 UNF 2 A (e.g. SKR 130/12 UNF), SKR 240/12 UNF with 3/4 – 16 UNF 2 A thread

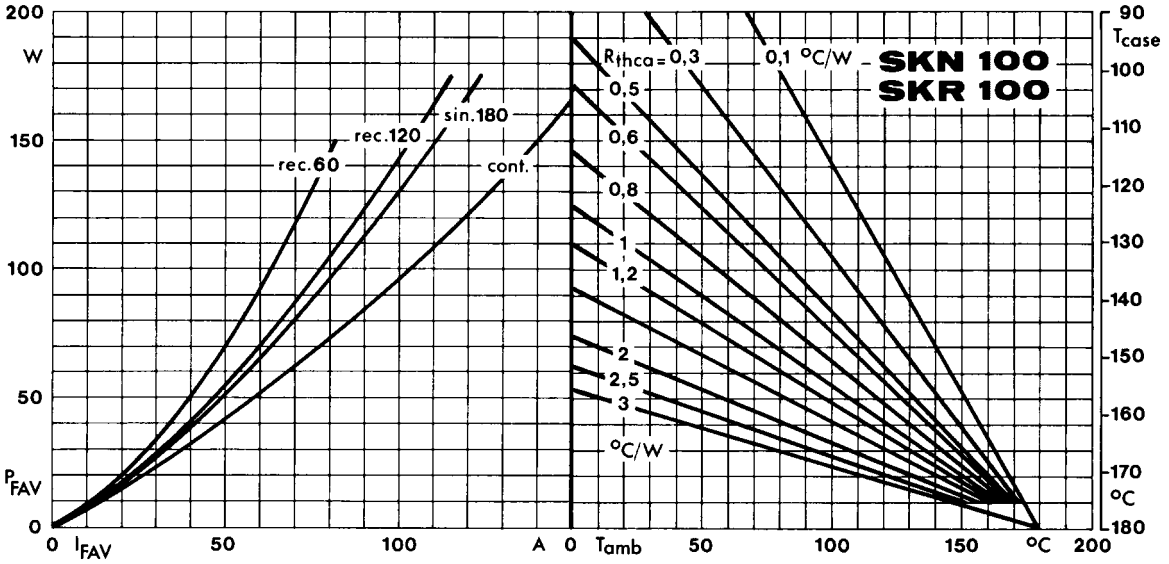


Fig. 1 a Power dissipation vs. forward current and case temperature

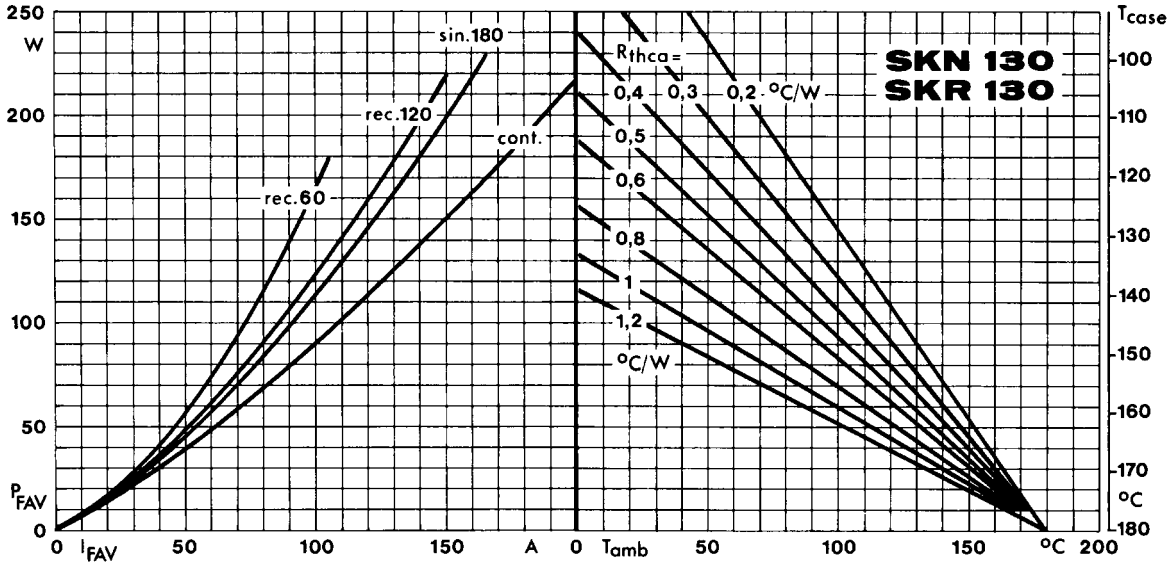


Fig. 1 b Power dissipation vs. forward current and case temperature

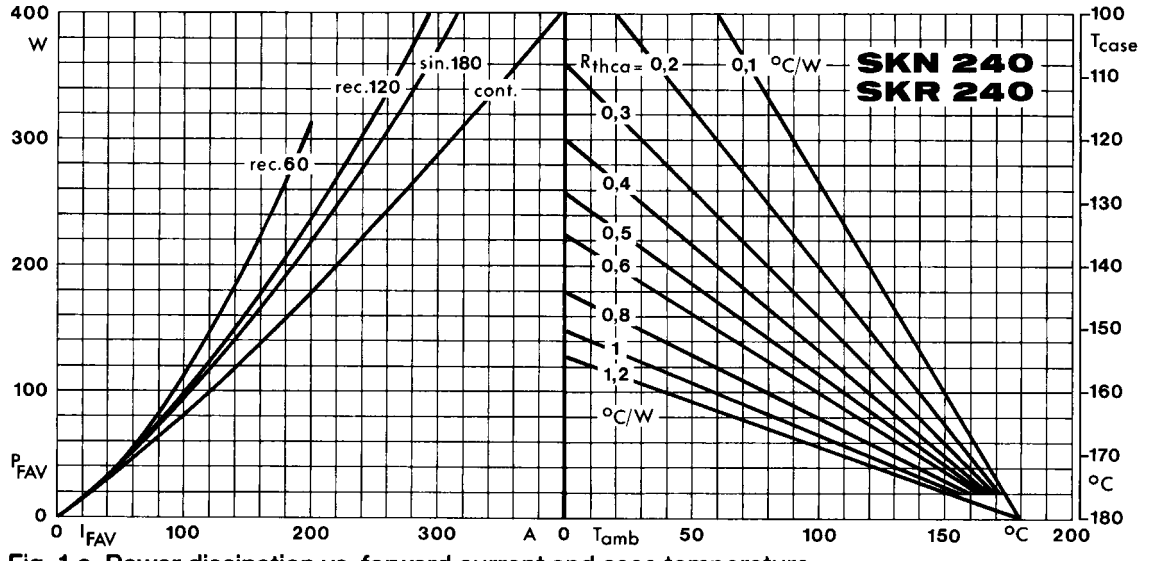


Fig. 1 c Power dissipation vs. forward current and case temperature

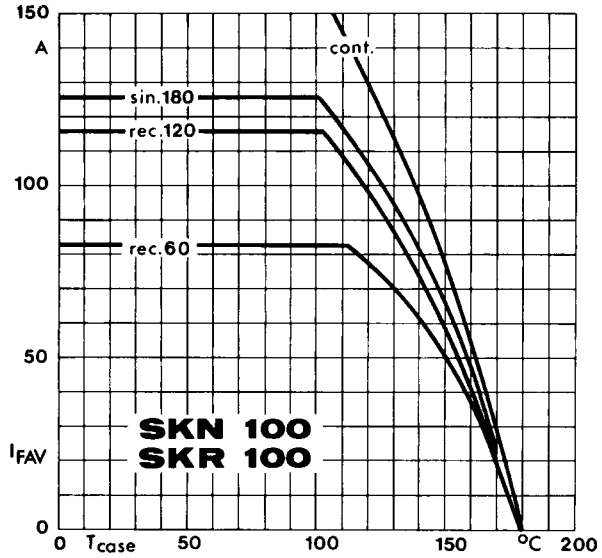


Fig. 3 a Rated forward current vs. case temperature

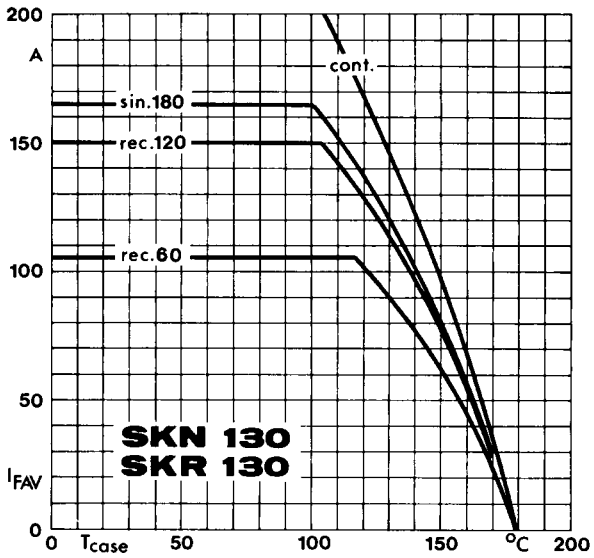


Fig. 3 b Rated forward current vs. case temperature

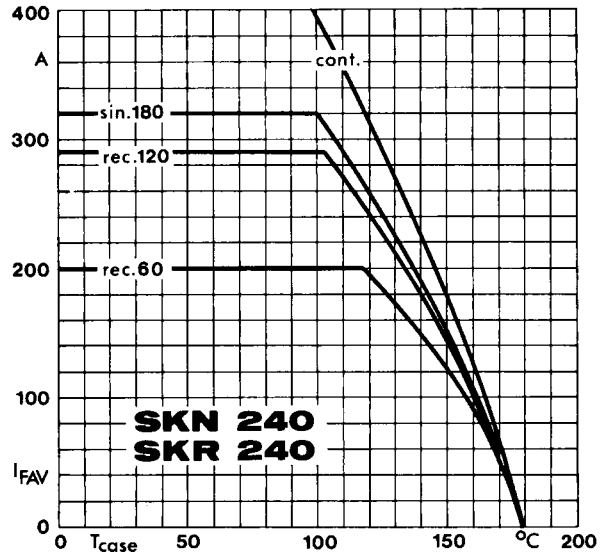


Fig. 3 c Rated forward current vs. case temperature

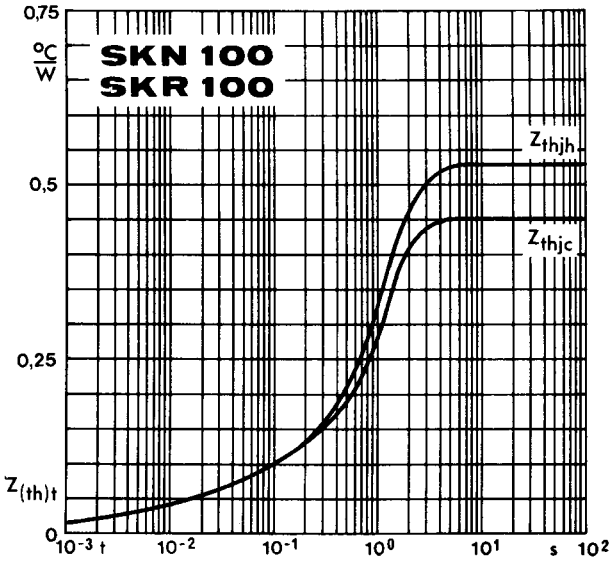


Fig. 5 a Transient thermal impedance vs. time

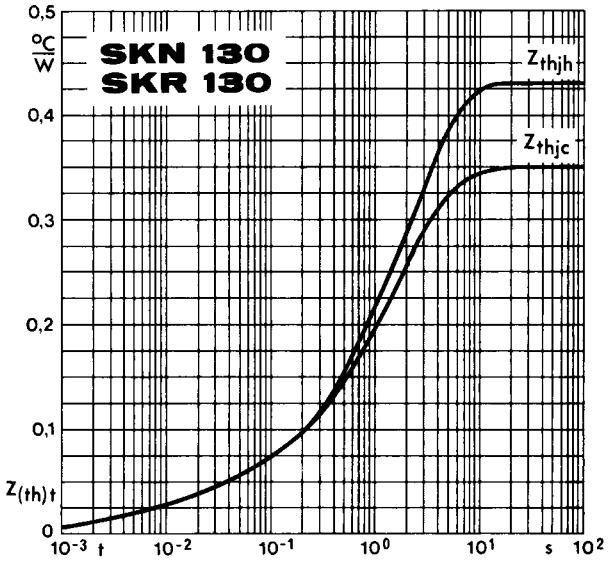


Fig. 5 b Transient thermal impedance vs. time

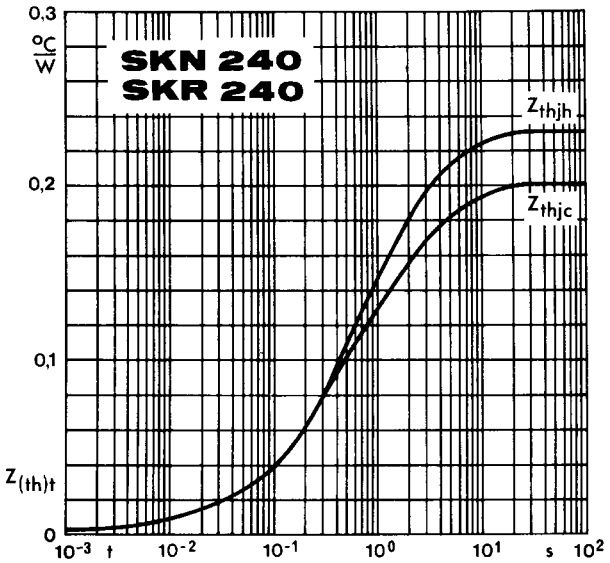


Fig. 5 c Transient thermal impedance vs. time

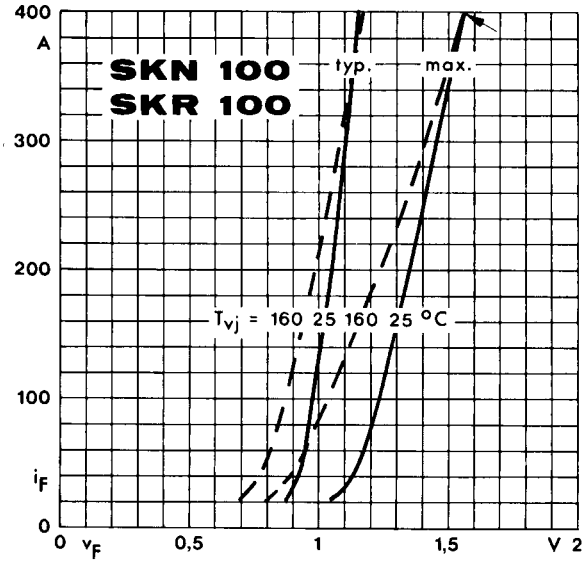


Fig. 6 a Forward characteristics

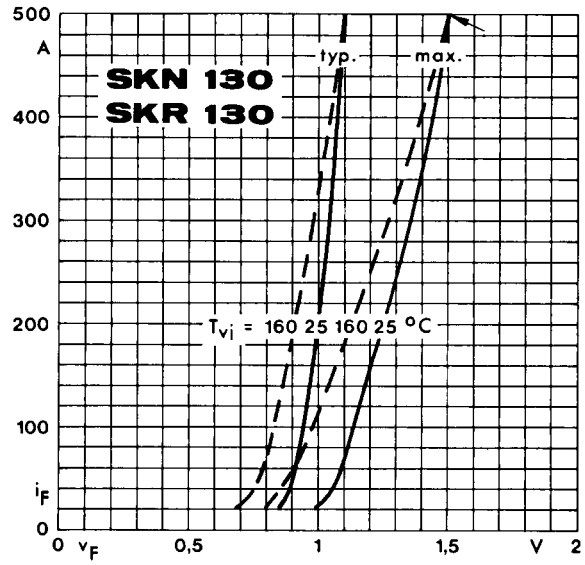


Fig. 6 b Forward characteristics

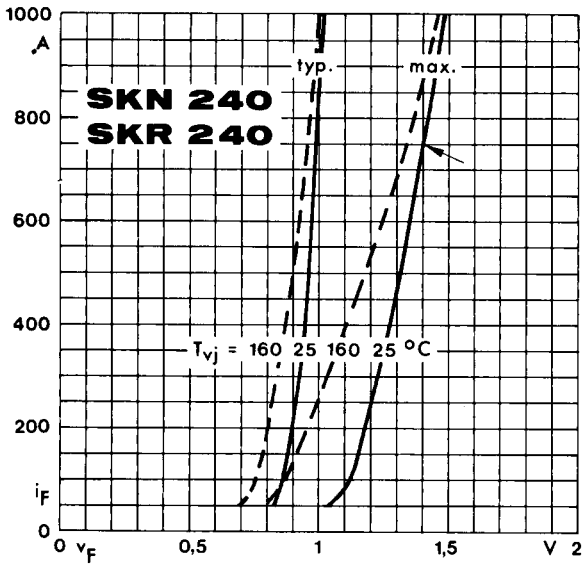


Fig. 6 c Forward characteristics

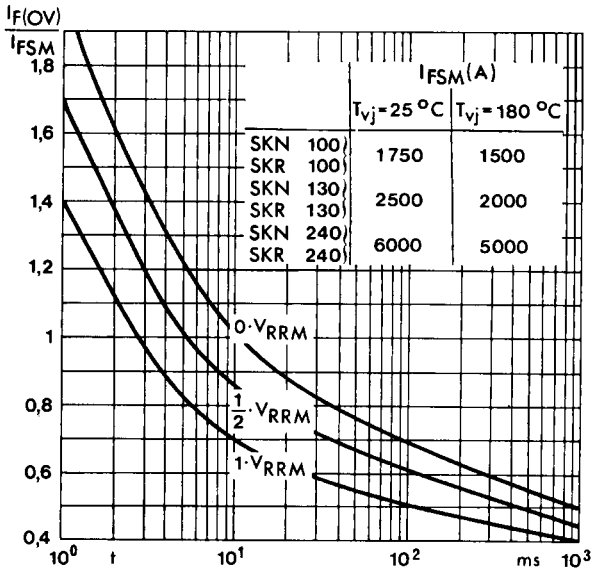
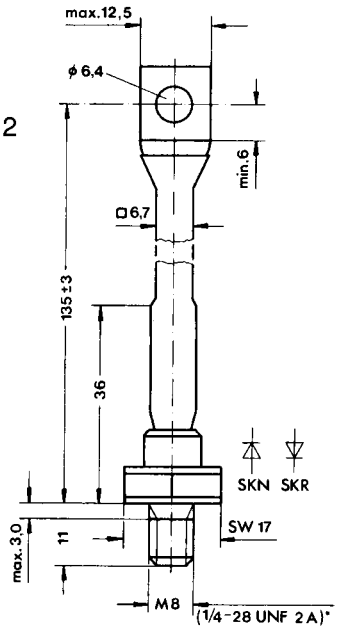


Fig. 7 Surge overload current vs. time

SKN 45, SKR 45
SKN 70, SKR 70

Case E 12

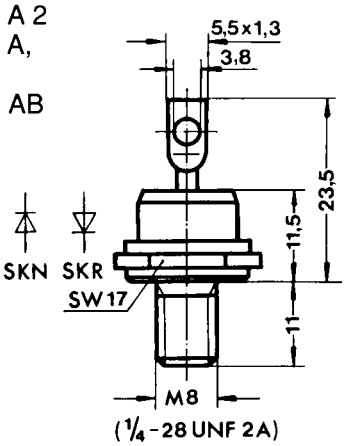
IEC: A 16 U; A 17 M B 2
DIN 41 886: 103 A 2
BS 3934: SO-32 A,
SO-32 B



SKN 71
SKR 71

Case E 11

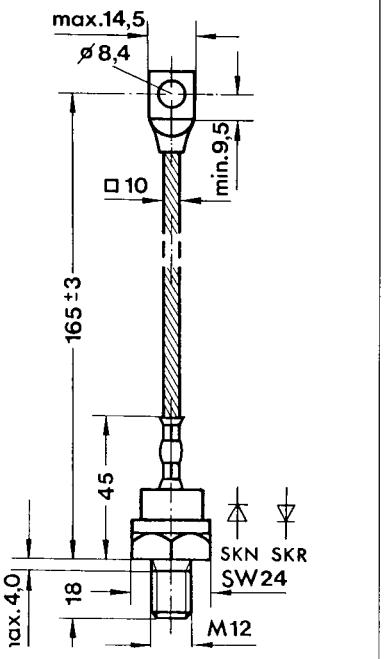
IEC: A 16 U; A 17 M B 2
DIN 41 886: 103 A 2
BS 3934: SO-32 A,
SO-32 B
JEDEC: DO-203 AB
(DO-5)



SKN 100
SKR 100

Case E 13

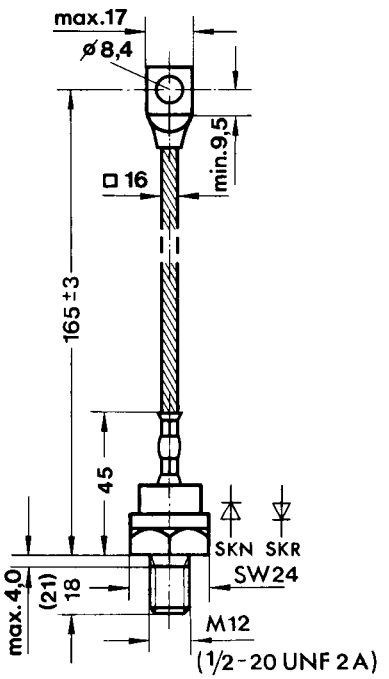
IEC: A 9 MA[1)]
DIN 41 887: 105 B 2[1)]
BS 3934: SO-29 B
JEDEC: DO-205 AC



SKN 130
SKR 130

Case E 14

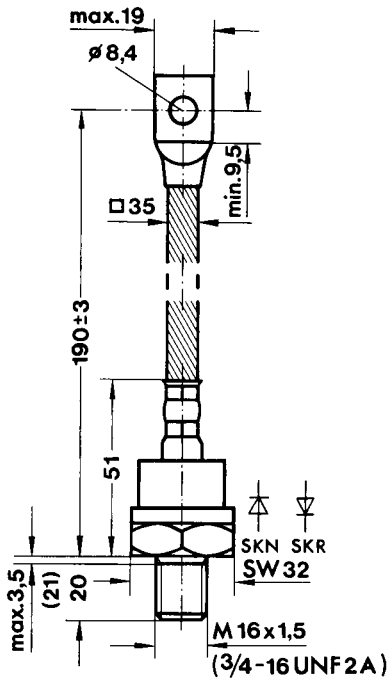
IEC: A 9 MA[1)]
DIN 41 887: 105 B 2[1)]
BS 3934: SO-29 B
JEDEC: DO-205 AC
(DO-30)[2)]



SKN 240
SKR 240

Case E 15

IEC: A 15 M
DIN 41 887: 106 B 2
BS 3934: SO-42
JEDEC: DO-205 AB
(DO-9)



[1)] modified
[2)] available with thread ½-20 UNF 2 A or ⅜-28 UNF 2 A

Dimensions in mm