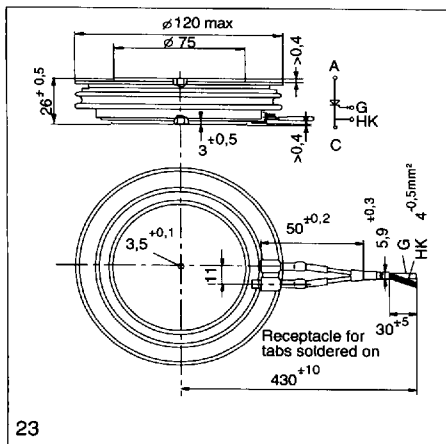


GTO-Thyristors and Circuit Components

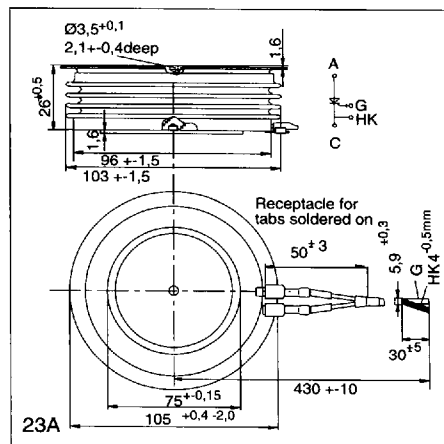
Type	V_{DRM} V $V_{RG} = -5V$	V_{RRM} V	I_{TSM} kA 10 ms, $t_{vj\ max}$	$V_{D(D)^{1)}$ V $V_{RG} = -5V$ $t_c = -25...+85^{\circ}C$	V_T / I_{TM} V/A 10 ms, $t_{vj\ max}$	V_{GT} V $V_D = 24V$ $t_{vj} = 25^{\circ}C$	I_{GT} A $V_D = 24V$ $t_{vj} = 25^{\circ}C$	Q_{GQ} / I_{TM} $\mu As/A$ $t_{vj} = t_{vj\ max}$	R_{thJC} $^{\circ}C/W$ DC	$t_{vj\ max}$ $^{\circ}C$	outline
G 3000 A 35 T	3500	17	20	typ 2000	3,7/3000	1,3	3,5	9000/3000	0,0115	125	23
G 3000 A 40 T	4000	17	20	typ 2000	3,7/3000	1,3	3,5	9000/3000	0,0115	125	23
G 3000 A 45 T	4500	17	20	typ 2000	3,7/3000	1,3	3,5	9000/3000	0,0115	125	23
G 3000 B 45 T	4500	17	24	typ 2400	3,7/3000	1,3	3,5	9000/3000	0,0115	125	23
G 3000 C 45 T	4500	17	23	typ 3000	4 /3000	1,3	3,5	9000/3000	0,0115	125	23 + 23A
G 3000 C 45 T ²⁾	4500	17	20	typ 3000	4 /3000	1,3	3,5	12000/4000	0,0115	125	23A

¹⁾ estimated failure rate A ~ 100 fit

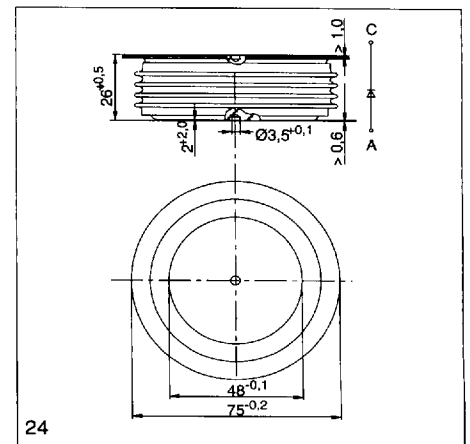
²⁾ fine pattern



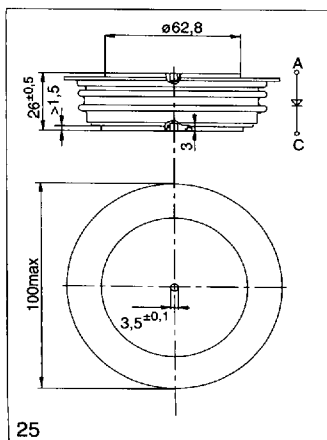
23



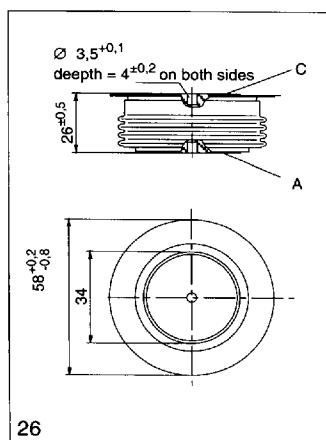
23A



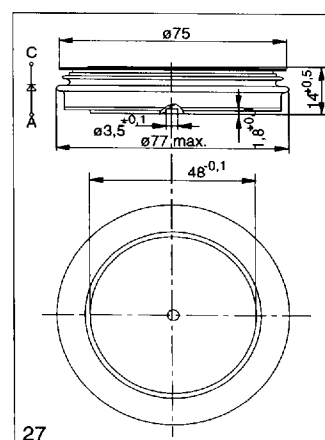
24



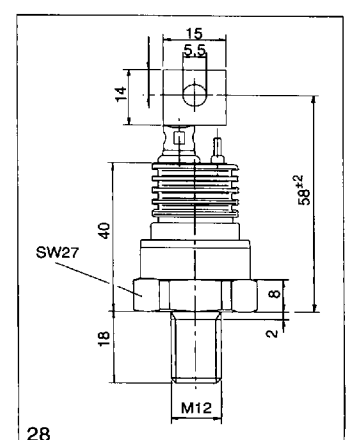
25



26



27



28

Freewheeling Diodes

Type	V _{DRM} V	I _{FSM} kA 10 ms, t _{vj} = t _{vj max}	V _{D(D)} V t _c = -25... +85°C	V _F V I _{FM} = 2500 A t _{vj} = t _{vj max}	Q _{rr} μAs I _{FM} = 1000 A t _{vj} = t _{vj max}	I _{RM} A di/dt = 250 A/μs RCD- Snubber	R _{thJC} °C/W	t _{vj max} °C	outline
D 721 S 35 T	3500	15,0	typ 2100	3,5	1700	600	0,0180	125	24
D 721 S 40 T	4000	15,0	typ 2100	3,5	1700	600	0,0180	125	24
D 721 S 45 T	4500	15,0	typ 2100	3,5	1700	600	0,0180	125	24
D 921 S 45 T	4500	23,0	typ 2600	2,6	2800	800	0,0125	140	25
D 1251 S 45 T	4500	18,0	typ 2700	2,5	3000	-	0,0140	140	27
D 1261 S 45 T	4500	18,0	typ 3000	2,5	3000	-	0,0140	140	27
D 1381 S 45 T	4500	23,0	typ 3000	2,6	2800	800	0,0125	140	25
D 1461 S 35 T	3500	24,5	typ 2000	2,5	2800	840	0,0125	140	25
D 1461 S 40 T	4000	24,5	typ 2000	2,5	2800	840	0,0125	140	25
D 1461 S 45 T	4500	24,5	typ 2000	2,5	2800	840	0,0125	140	25

Snubber Diodes

Type	V _{DRM} V	I _{FSM} kA 10 ms, t _{vj} = t _{vj max}	V _{D(D)} V t _c = -25 ... +85°C	V _F / I _{FM} V/A t _{vj} = t _{vj max}	Q _{rr} μAs V _R = 1000 V I _{FM} = 1000 A t _{vj} = t _{vj max}	I _{RM} A di/dt = 250 A/μs R = 6 Ω C = 0,1 μF	R _{thJC} °C/W	t _{vj max} °C	outline
D 56 S 40	4000	1,4	-	4,5/320	550	230	0,2450	125	28
D 56 S 45	4500	1,4	-	4,5/320	550	230	0,2450	125	28
D 56 U 40	4000	1,2	-	4,15/280	550	230	0,3250	125	28
D 56 U 45	4500	1,2	-	4,15/280	550	230	0,3250	125	28
D 291 S 35 T	3500	4,5	-	4,15/1200	950	500	0,0400	125	26
D 291 S 40 T	4000	4,5	-	4,15/1200	950	500	0,0400	125	26
D 291 S 45 T	4500	4,5	-	4,15/1200	950	500	0,0400	125	26
D 371 S 45 T	4500	6,0	-	3,9/1200	1250	560	0,0350	125	26
D 841 S 45 T	4500	15,0	-	3,5/2500	1700	600	0,0140	125	27
D 901 S 45 T	3500	21,5	-	3,5/2500	1500	-	0,0125	125	25
D 901 S 45 T	4000	21,5	-	3,5/2500	1500	-	0,0125	125	25
D 901 S 45 T	4500	21,5	-	3,5/2500	1500	-	0,0125	125	25