BKKT 330, BKKH 330



Thyristor / Diode Modules

ВККН 330 ВККТ 330

Features

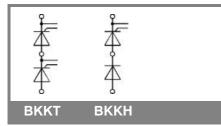
- Heat transfer through aluminium nitride ceramic isolated metal baseplate
- Precious metal pressure contacts for high reliability
- Thyristor with amplifying gate
- UL recognized, file no. E 63 532

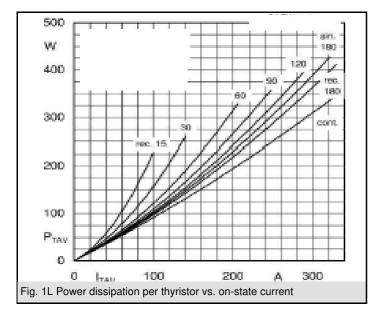
Typical Applications*

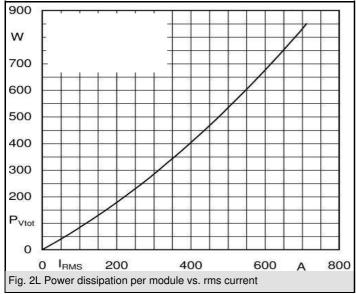
- DC motor control
 (e. g. for machine tools)
- Temperature control (e. g. for ovens, chemical processes)
- Professional light dimming (studios, theaters)
- 1) See the assembly instruction

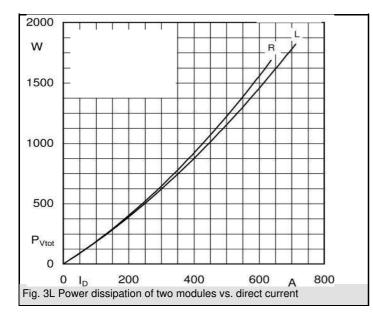
V _{RSM}	V _{RRM} , V _{DRM}	I _{TRMS} = 510 A (maximum value for continuous operation)		
V	V	I _{TAV} = 330 A (sin. 180; T _c = 80 °C)		
900	800	BKKT 330/08E	BKKH 330/08E	
1300	1200	BKKT 330/12E	BKKH 330/12E	
1700	1600	BKKT 330/16E	BKKH 330/16E	
1900	1800	BKKT 330/18E	BKKH 330/18E	

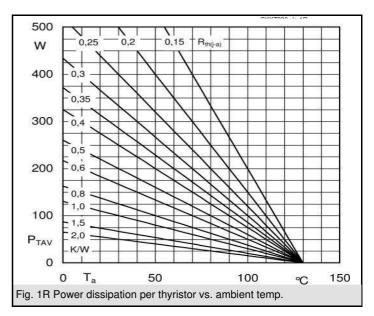
Symbol	Conditions	Values	Units
ITAV	sin. 180; T _c = 85 (100) °C;	305 (225)	А
I _D	P16/200F; T _a = 35 °C; B2 / B6	520 / 650	Α
I _{RMS}	P16/200F; T _a = 35 °C; W1 / W3	585 / 3 * 485	А
I _{TSM}	T _{vi} = 25 °C; 10 ms	9500	A
	T _{vi} = 130 °C; 10 ms	8000	Α
i²t	T _{vj} = 25 °C; 8,3 10 ms	451000	A²s
	T _{vj} = 130 °C; 8,3 10 ms	320000	A²s
V _T	T _{vi} = 25 °C; I _T = 750 A	max. 1,4	V
V _{T(TO)}	T _{vi} = 130 °C	max. 0,8	V
r _T	T _{vj} = 130 °C	max. 0,6	mΩ
I _{DD} ; I _{RD}	T_{vj} = 130 °C; V_{RD} = V_{RRM} ; V_{DD} = V_{DRM}	max. 85	mA
t _{gd}	T _{vj} = 25 °C; I _G = 1 A; di _G /dt = 1 A/μs	1	μs
t _{gr}	V _D = 0,67 * V _{DRM}	2	μs
(di/dt) _{cr}	T _{vi} = 130 °C	max. 250	A/µs
(dv/dt) _{cr}	T _{vi} = 130 °C	max. 1000	V/µs
t _q	T _{vj} = 130 °C ,	50 150	μs
I _H	T _{vj} = 25 °C; typ. / max.	150 / 500	mA
I _L	T_{vj} = 25 °C; R_G = 33 Ω ; typ. / max.	300 / 2000	mA
V _{GT}	T _{vj} = 25 °C; d.c.	min. 3	V
I _{GT}	$T_{vj} = 25 \text{ °C}; \text{ d.c.}$	min. 200	mA
V _{GD}	T _{vj} = 130 °C; d.c.	max. 0,25	V
I _{GD}	T _{vj} = 130 °C; d.c.	max. 10	mA
R _{th(j-c)}	cont.; per thyristor / per module	0,11 / 0,055	K/W
R _{th(j-c)}	sin. 180; per thyristor / per module	0,116 / 0,058	K/W
R _{th(j-c)}	rec. 120; per thyristor / per module	0,13 / 0,065	K/W
R _{th(c-s)}	per thyristor / per module	0,04 / 0,02	K/W
T _{vj}		- 40 + 130	°C
T _{stg}		- 40 + 130	°C
V _{isol}	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	3600 / 3000	V~
M _s	to heatsink	5 ± 15 % ¹⁾	Nm
M _t	to terminals	9 ± 15 %	Nm
а		5 * 9,81	m/s²
m	approx.	600	g
Case	SKKT	A 73b	
	sккн	A 76b	

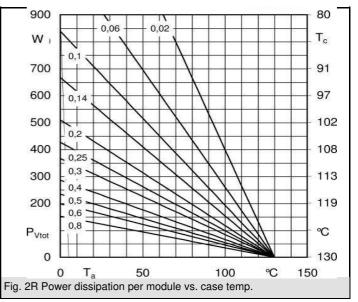


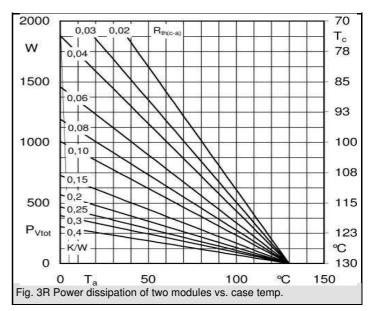




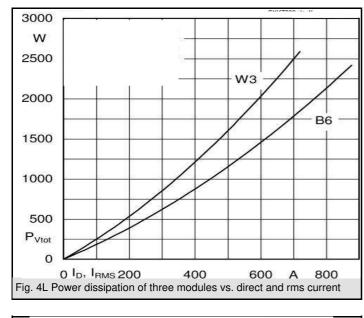


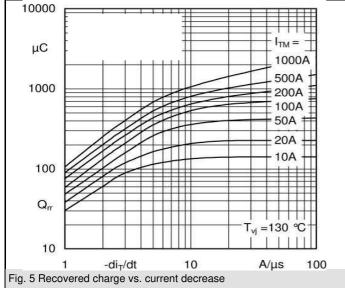


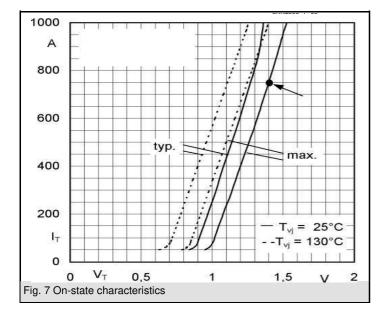


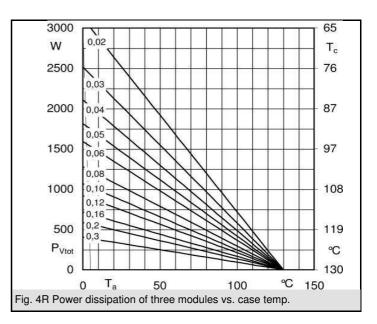


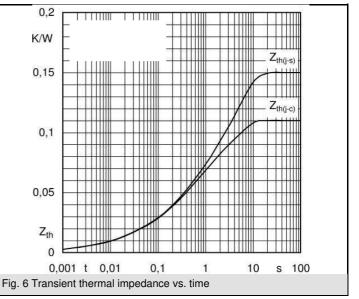
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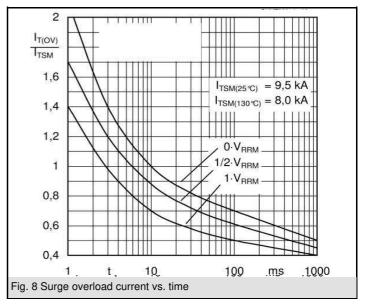


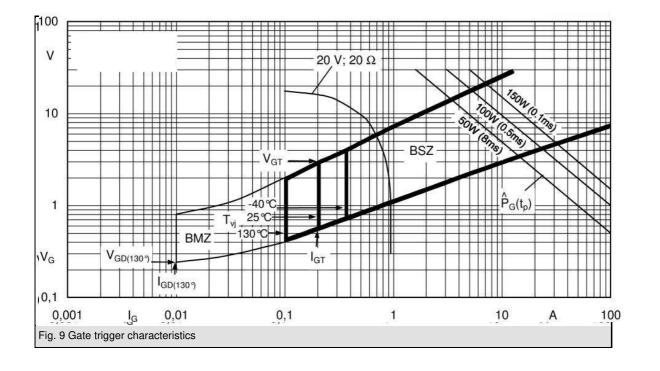


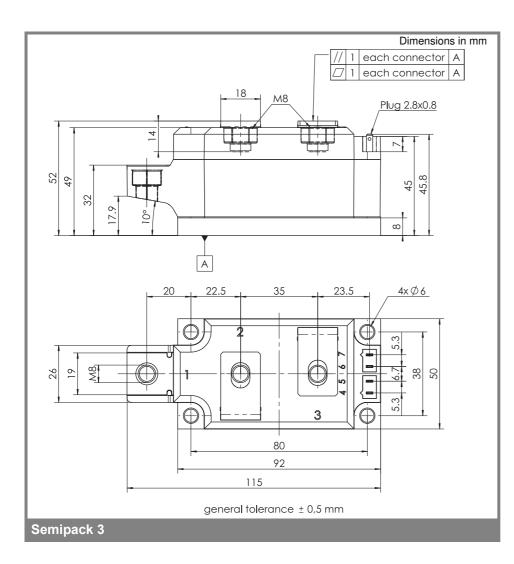


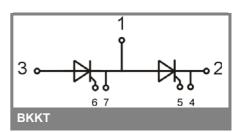


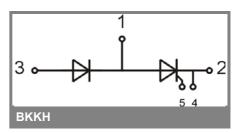












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This is an electrostatic discharge sensitive device (ESDS), international standard IEC 60747-1, chapter IX.

***IMPORTANT INFORMATION AND WARNINGS**

The specifications of products may not be considered as guarantee or assurance of product characteristics

("Beschaffenheitsgarantie"). The specifications of products describe only the usual characteristics of products to be expected intypical applications, which may still vary depending on the specific application. Therefore, products must be tested for the respective application in advance. Application adjustments may be necessary. The user of products is responsible for the safety of their applications embedding products and must take adequate safety measures to prevent the applications from causing a physical injury, fire or other problem if any of products become faulty. The user is responsible to make sure that the application design is compliant with all applicable laws, regulations, norms and standards. Except as otherwise explicitly approved in a written document signed by authorized representativproducts may not be used in any applications where a failure of the product or any consequences of the use thereof can reasonably be expected to result in personal injury. No representation or warranty is given and no liability is assumed with respect to the accuracy, completeness and/or use of any information herein, including without limitation, warranties of non-infringement of intellectual property rights of any third party. does not assume any liability arising out of the applications or use of any product; neither does it convey any license under its patent rights, copyrights, trade secrets or other intellectual property rights, nor the rights of any third party which may arise from applications. Due to technical requirements our products may contain dangerous substances. For information on the types in question please contact the nearest sales office. This document supersedes and replaces all information previously supplied and may be superseded by updates. reserves the right to make changes.