

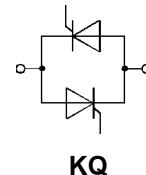
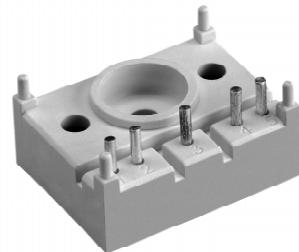
V_{RSM} V	V_{RRM} V_{DRM}	I_{RMS} (maximum values for continuous operation) ($T_h = 85^\circ C$)	
	V	47 A	72 A
900	800	SK 45 KQ 08	SK 70 KQ 08
1300	1200	SK 45 KQ 12	SK 70 KQ 12
1700	1600	SK 45 KQ 16	SK 70 KQ 16

SEMITOP® 1

Antiparallel Thyristor Module
for a.c. controllers

SK 45 KQ SK 70 KQ

Preliminary Data



Features

- Compact design
- One screw mounting
- Heat transfer and isolation through direct copper bonded aluminium oxide ceramic (DCB)
- Glass passivated thyristor chips
- Up to 1600 V reverse voltage

Typical Applications

- Soft starters
- Light control (studios, theaters)
- Temperature control

¹⁾ Thermal resistance junction to heatsink

SK 45 KQ, SK 70 KQ

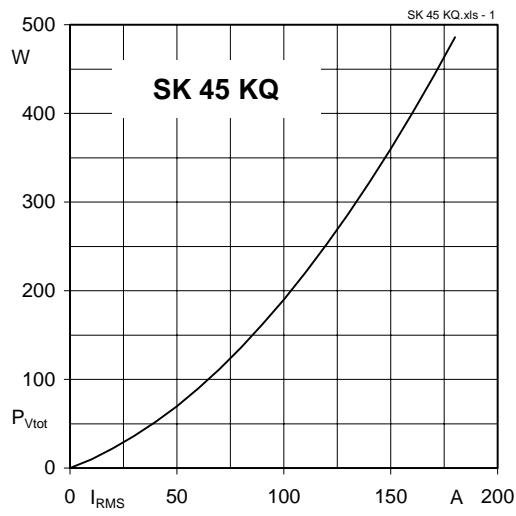


Fig. 1 Power dissipation per module vs. rms current

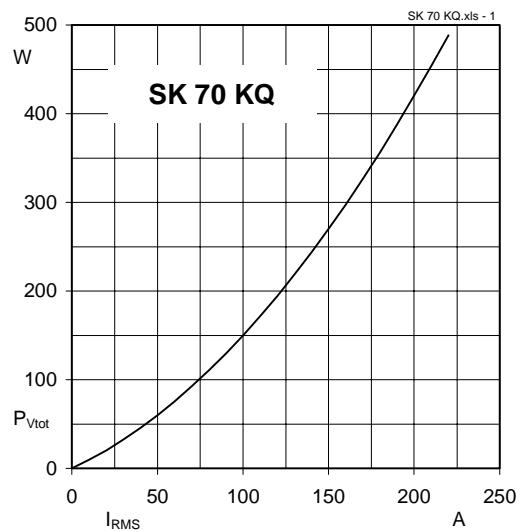


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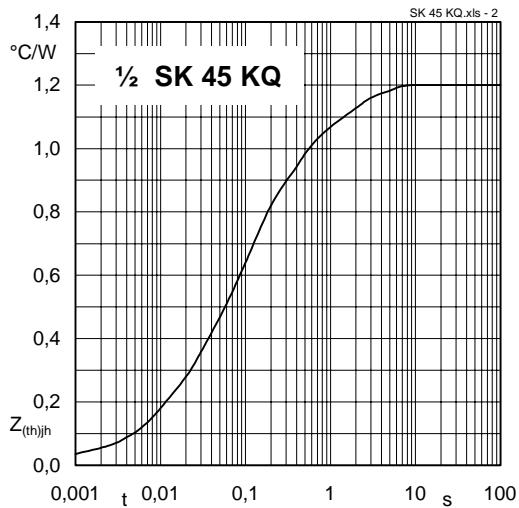


Fig. 2 Transient thermal impedance vs. time

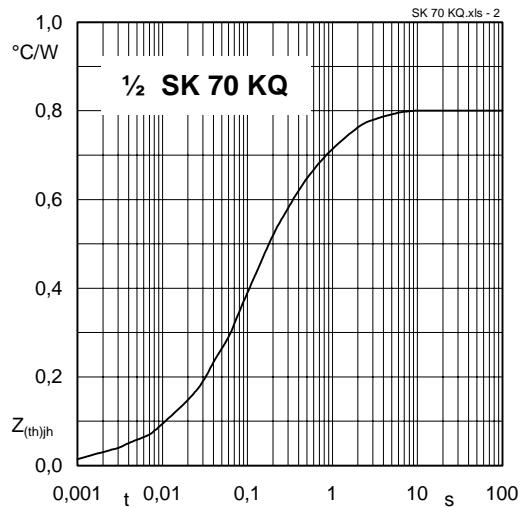


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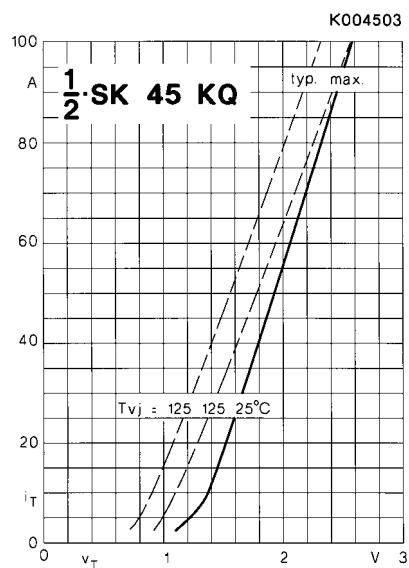


Fig. 3 On-state characteristics

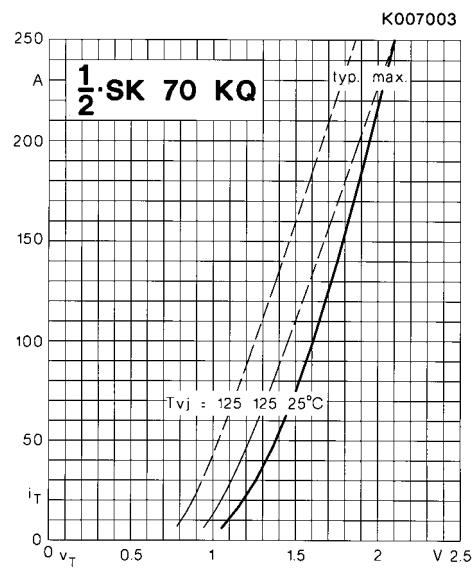


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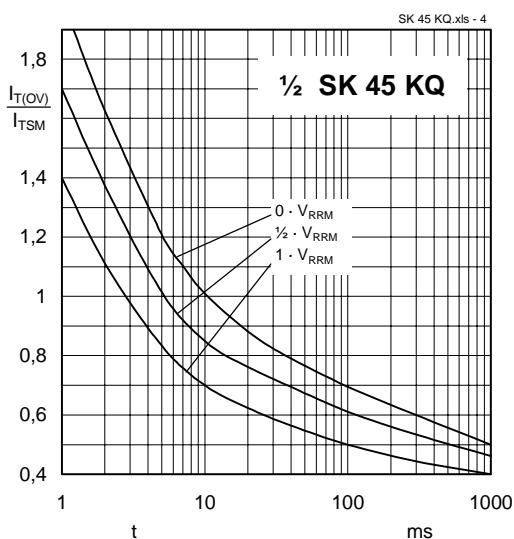


Fig. 4 Surge overload current vs. time

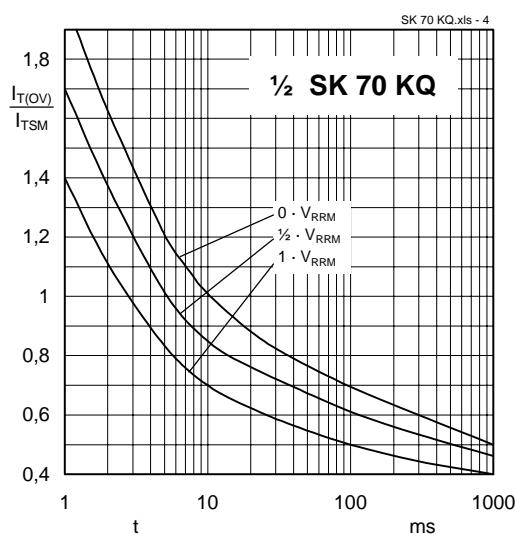


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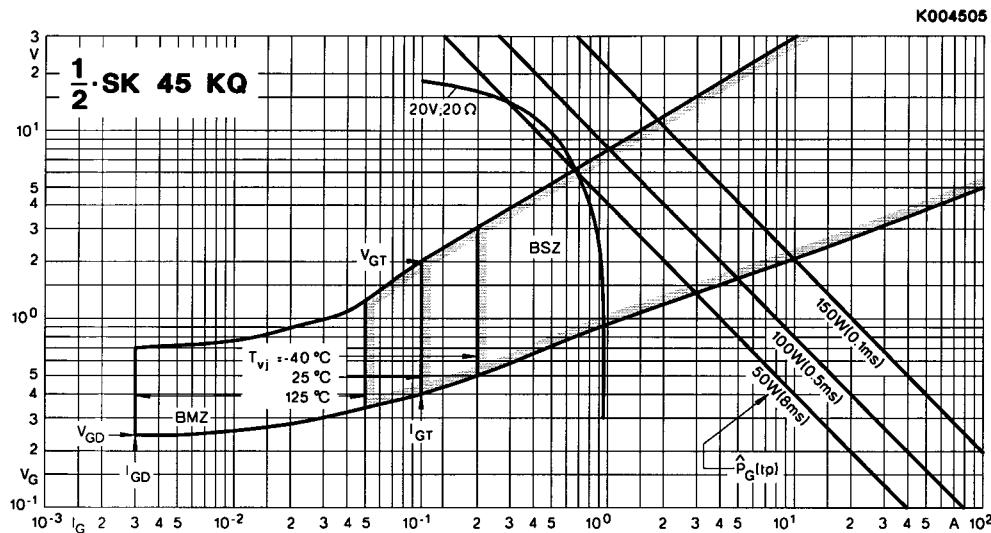


Fig. 5 Gate trigger characteristics

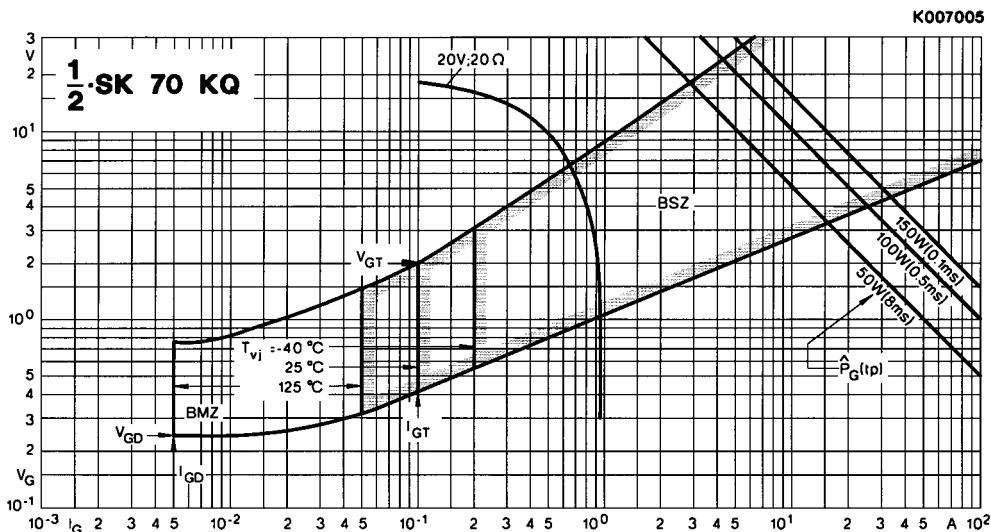


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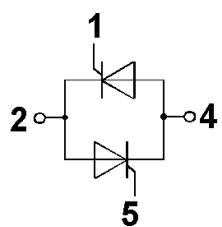
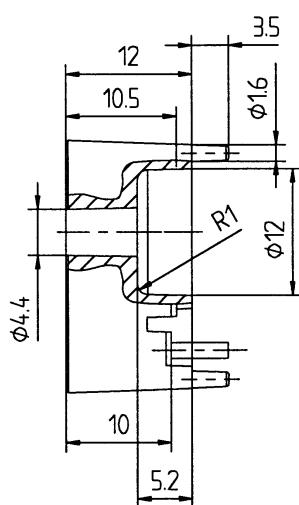
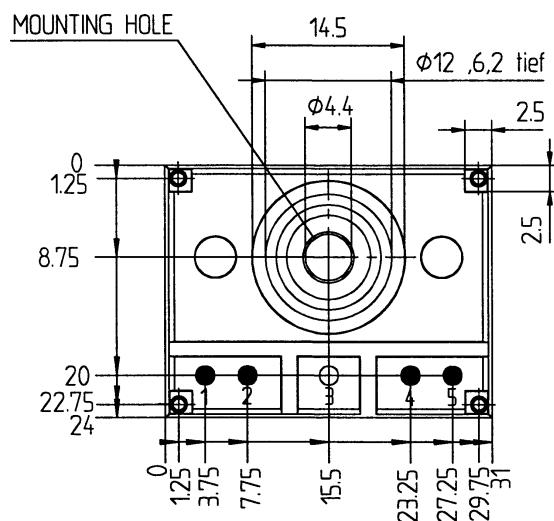
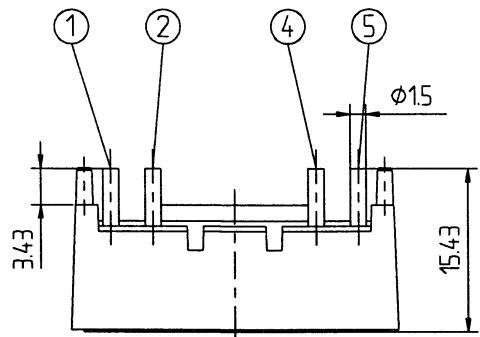
SK 45 KQ, SK 70 KQ

SEMITOP® 1

SK 45 KQ

SK 70 KQ

Case T 1



Dimensions in mm