SEMIPACK® 2
Thyristor / Diode Modules

SKKT 132  SKKH 132
SKMT 132 1)  SKNH 132 1)
SKKT 162  SKKH 162

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)
- Temperature control (e.g. for ovens, chemical processes)
- Professional light dimming (studios, theaters)
- SKNH 162 for DC braking of induction motors for circuit see data sheet SKNH 56

1) SKMT 132, SKNH 132 available on request
2) See the assembly instructions

This technical information specifies semiconductor devices but promises no characteristics. No warranty or guarantee expressed or implied is made regarding delivery, performance or suitability.
Fig. 1a Power dissipation per thyristor vs. on-state current and ambient temperature

Fig. 1b Power dissipation per thyristor vs. on-state current and ambient temperature

Fig. 2a Power dissipation per module vs. rms current and case temperature
Fig. 2 b Power dissipation per module vs. rms current and case temperature

Fig. 3 a Power dissipation of two modules vs. direct current and case temperature

Fig. 3 b Power dissipation of two modules vs. direct current and case temperature
Fig. 4a Power dissipation of three modules vs. direct and rms current and case temperature

Fig. 4b Power dissipation of three modules vs. direct and rms current and case temperature

Fig. 5 Recovered charge vs. current decrease

Fig. 6a Transient thermal impedance vs. time
Fig. 6 b Transient thermal impedance vs. time

Fig. 7 a Thermal resistance vs. conduction angle

Fig. 7 b Thermal resistance vs. conduction angle

Fig. 8 a On-state characteristics

Fig. 8 b On-state characteristics

Fig. 9 a Surge overload current vs. time
Fig. 9 b Surge overload current vs. time

Fig. 10 Gate trigger characteristics