

# SKHE 2000/900-1,2



High Voltage Rectifier

## Rectifier Diode

SKHE 2000/900-1,2

### Features

- Repetitive reverse voltage of 4800 V
- Epoxy case with screw terminals
- Can be series connected for higher voltage applications
- High  $I_{FSM}$  and  $i^2t$  ratings
- Avalanche characteristics
- For use in air or oil

### Typical Applications

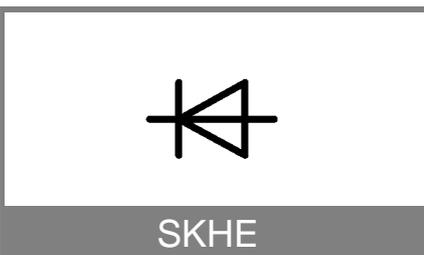
- High voltage power supplies
- Measuring equipment
- RF transmission power supply
- Dust precipitators
- Lasers

Note:

Recommended maximum AC input voltage:  $V_{VRMS} = 2000\text{ V}$

$V_{(BR)}$ V	$V_{RRM}$ V	$I_{FRMS} = 4\text{ A}$ (maximum value for continuous operation) $I_{FAV} = 1,5\text{ A}$ (sin. 180; $T_{oil} = 75\text{ °C}$ )
6000	4800	SKHE 2000/900-1,2

Symbol	Condition	Values	Units
$I_{FAV}$	sin. 180 ; $T_{amb} = 45\text{ °C}$	1,25	A
$I_{FSM}$	$T_{vj} = 25\text{ °C}$ ; 10 ms $T_{vj} = 150\text{ °C}$ ; 10 ms	135 120	A A
$i^2t$	$T_{vj} = 25\text{ °C}$ ; 8,3...10 ms $T_{vj} = 150\text{ °C}$ ; 8,3...10 ms	91 72	$A^2s$ $A^2s$
$V_F$	$T_{vj} = 25\text{ °C}$ , $I_F = 1,5\text{ A}$	max. 3,6	V
$V_{(TO)}$	$T_{vj} = 150\text{ °C}$	max. 3,2	V
$r_T$	$T_{vj} = 150\text{ °C}$	max. 96	$m\Omega$
$I_{RD}$	$T_{vj} = 150\text{ °C}$ ; $V_R = V_{RRM}$	max. 1	mA
$Q_{rr}$		4	$\mu C$
$R_{th(j-c)}$		9	K/W
$R_{th(i-a)}$		21	K/W
$T_{vj}$		-40...+150	$^{\circ}C$
$T_{stg}$		-40...+150	$^{\circ}C$
$V_{isol}$		-	V~
$M_s$	maximum to terminals (SI units) maximum to terminals (US units)	0,9 8	Nm lb.in.
a		5 * 9,81	$m/s^2$
m	approx.	30	g
Case		SKHE 1	



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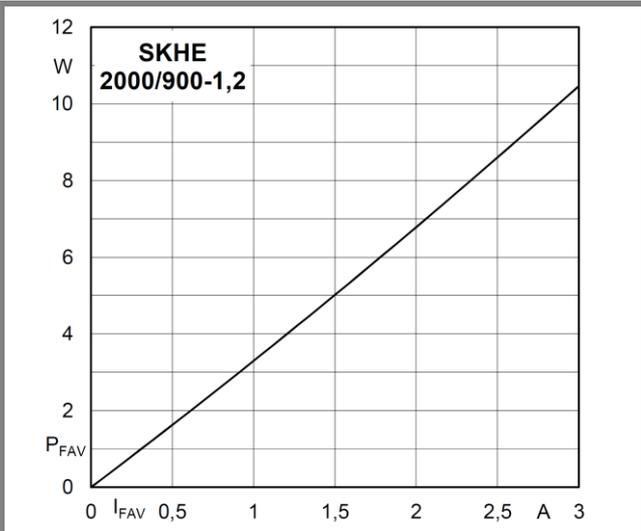


Fig. 1L Power dissipation vs. forward current

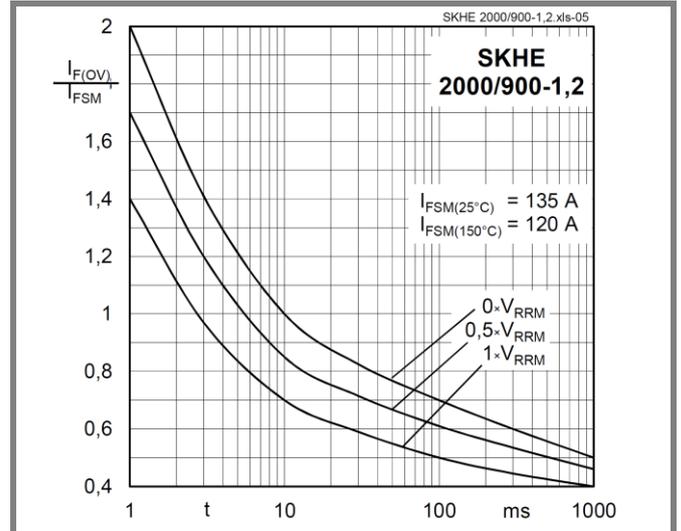


Fig. 5 Surge overload current vs time

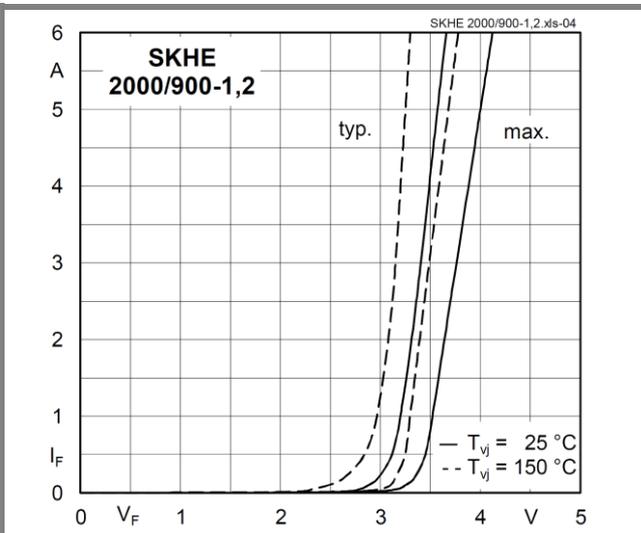


Fig. 4 Forward characteristics

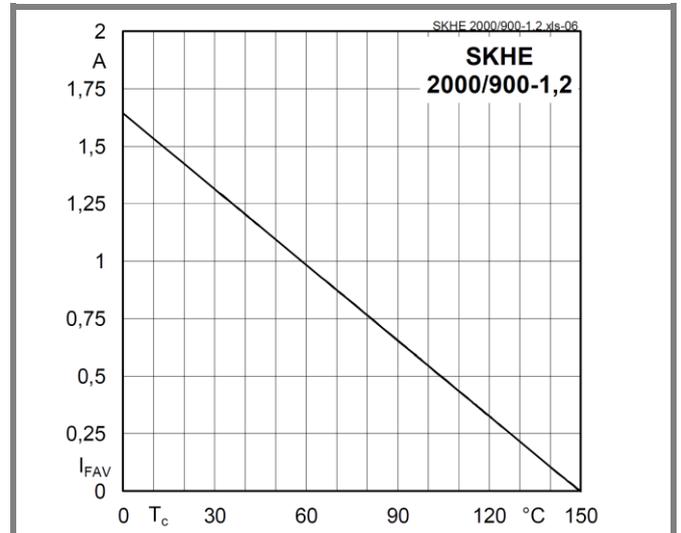
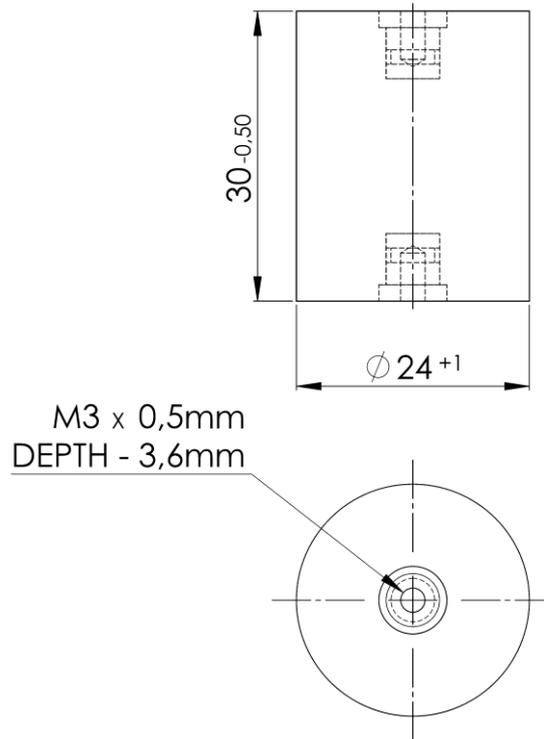


Fig. 6 Forward current vs case temperature



## Case SKHE 1

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