

### FEATURES

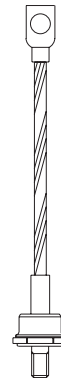
- 1). Reverse voltages up to 1600V
- 2). Hermetic metal case with glass insulator
- 3). Threaded stud ISO M8
- 4). SKN: anode to stud

### MAJOR RATINGS AND CHARACTERISTICS

$V_{RSM}$	$V_{RRM}$	$I_{FRMS}=80A$ (maximum value for continuous operation) $I_{FAV}=45A$ (sin. 180° ; $T_C=125^{\circ}C$ )
V	V	
400	400	SKN 45/04
800	800	SKN 45/08
1200	1200	SKN 45/12
1400	1400	SKN 45/14
1600	1600	SKN 45/16

### TYPICAL APPLICATIONS

- 1). All-purpose mean power rectifier diodes
- 2). Cooling via heatsinks
- 3). Non-controllable and half-controllable rectifiers
- 4). Free-wheeling diodes
- 5). Recommended snubber network:  
RC: 0,1  $\mu$ F, 100  $\Omega$  ( $P_R=1W$ ),  
 $R_p=80K \Omega$  ( $P_R=6W$ )



### ELECTRICAL SPECIFICATIONS

Symbol	Conditions	Values	V
$I_{FAV}$	sin. 180; $T_C=100^{\circ}C$	50	A
$I_D$	K 9; $T_a=45^{\circ}C$ ; B2/B6	40/57	A
	K 3; $T_a=45^{\circ}C$ ; B2/B6	86/120	A
$I_{FSM}$	$T_{vj}=25^{\circ}C$ ; 10ms	700	A
	$T_{vj}=180^{\circ}C$ ; 10ms	600	A
$I^2t$	$T_{vj}=25^{\circ}C$ ; 8,3 ... 10ms	2500	$A_2S$
	$T_{vj}=180^{\circ}C$ ; 8,3 ... 10ms	1800	$A_2S$
$V_F$	$T_{vj}=25^{\circ}C$ ; $I_F=150A$	max. 1.6	V
$V_{(TO)}$	$T_{vj}=180^{\circ}C$	max. 0.85	V
$r_T$	$T_{vj}=180^{\circ}C$	max. 5	m $\Omega$
$I_{RD}$	$T_{vj}=180^{\circ}C$ ; $V_{RD}=V_{RRM}$	max. 10	mA
$Q_{rr}$	$T_{vj}=160^{\circ}C$ ; $-di_F/dt=10A \mu s$	70	$\mu C$
$R_{th(j-c)}$		0.85	K/W
$R_{th(c-s)}$		0.25	K/W
$T_{vj}$		-40 ... +180	$^{\circ}C$
$T_{stg}$		-55 ... +180	$^{\circ}C$

Symbol	Conditions	Values	V
$V_{isol}$		-	V~
$M_s$	to heatsink	4	Nm
a		5*9.81	m/s <sup>2</sup>
m	approx.	30	g
Case		E12	

**PERFORMANCE CURVES FIGURE**

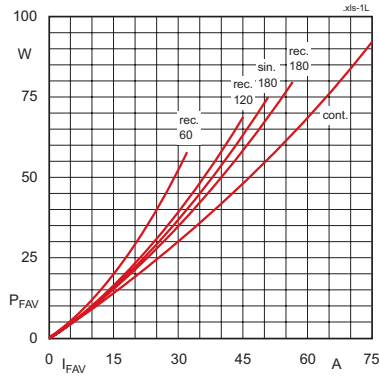


Fig. 1L Power dissipation vs. forward current

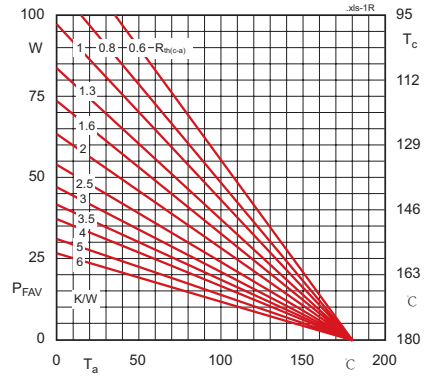


Fig. 1R Power dissipation vs. ambient temperature

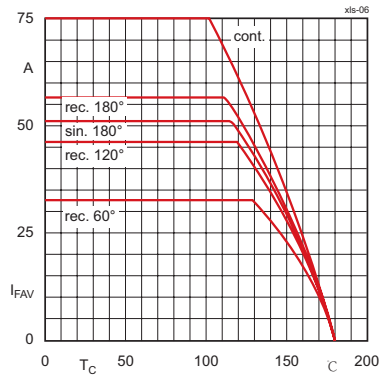


Fig. 2 Forward current vs. case temperature

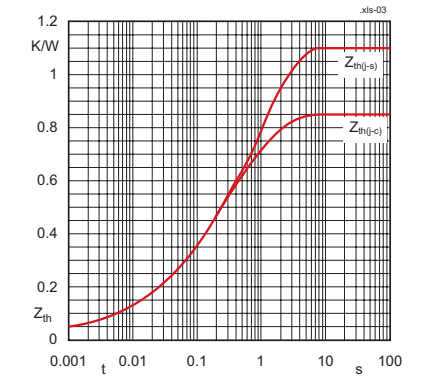


Fig. 4 Transient thermal impedance vs. time

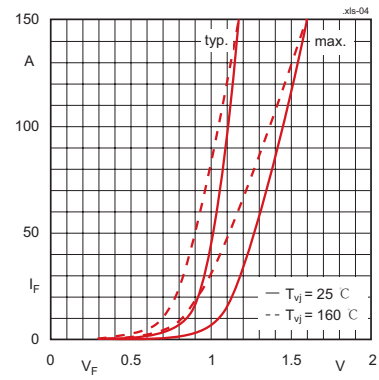


Fig. 5 Forward characteristics

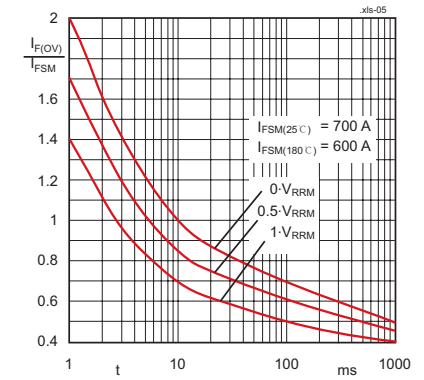
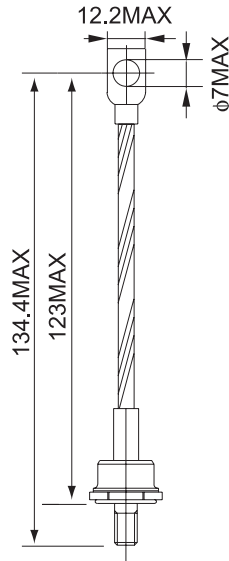


Fig. 6 Surge overload current vs. time

## OUTLINE



**SKD5L**

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