

FEATURES

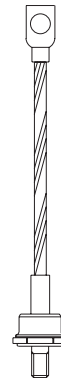
- 1). Reverse voltages up to 1600V
- 2). Hermetic metal case with glass insulator
- 3). Threaded stud ISO M8
- 4). SKR: cathode to stud

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	SKR 45/04
800	800	SKR 45/08
1200	1200	SKR 45/12
1400	1400	SKR 45/14
1600	1600	SKR 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 μ F, 100 Ω ($P_R=1W$),
 $R_p=80K \Omega$ ($P_R=6W$)



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	μC
$R_{th(j-c)}$		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 ²
m	approx.	30	g
Case		E12	

PERFORMANCE CURVES FIGURE

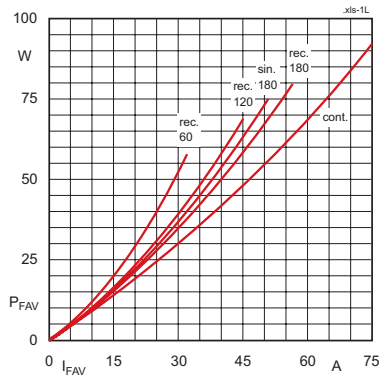


Fig. 1L Power dissipation vs. forward current

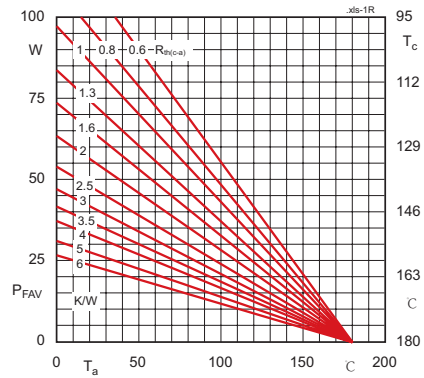


Fig. 1R Power dissipation vs. ambient temperature

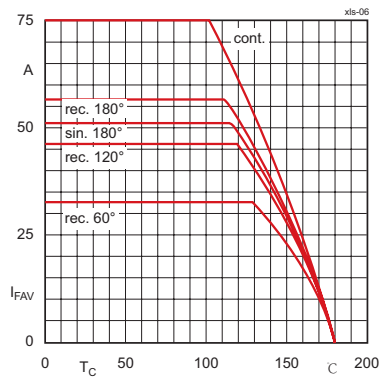


Fig. 2 Forward current vs. case temperature

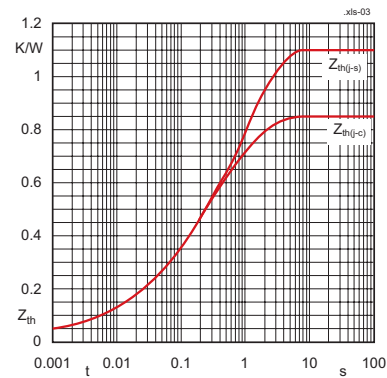


Fig. 4 Transient thermal impedance vs. time

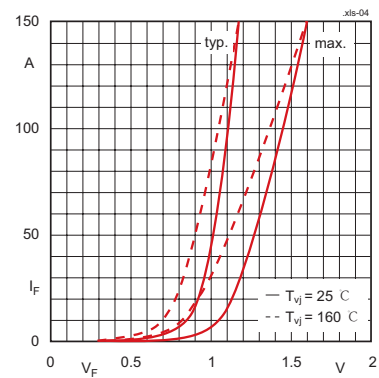


Fig. 3 Forward current vs. forward voltage

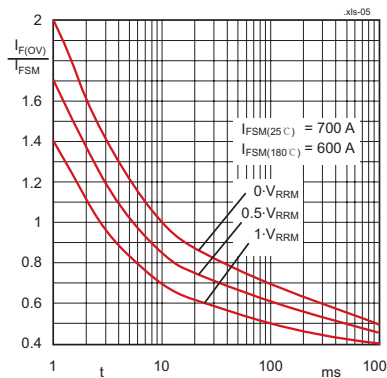
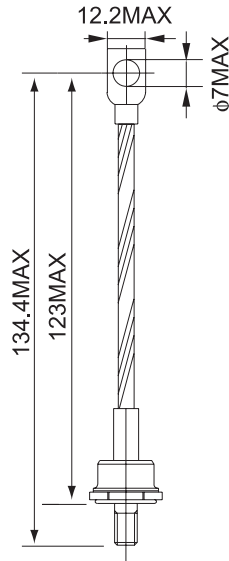


Fig. 5 Forward current vs. time

OUTLINE



SKD5L

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