

FEATURES

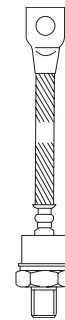
- 1). Reverse voltages up to 3000V
- 2). Hermetic metal case with ceramic insulator with extra long creepage distances
- 3). Threaded stud ISO M24 × 1.5
- 4). SKR: anode to stud

MAJOR RATINGS AND CHARACTERISTICS

V_{RSM}	V_{RRM}	$I_{FRMS}=700A$ (maximum value for continuous operation) $I_{FAV}=400A$ (sin. 180° ; $T_C=100^{\circ}C$)
V	V	
1800	1800	SKR 400/18
2400	2400	SKR 400/24
2700	2700	SKR 400/27
3000	3000	SKR 400/30

TYPICAL APPLICATIONS

- 1). High voltage rectifier diodes, especially for traction applications
- 2). Cooling via heatsinks
- 3). Non-controllable and half-controllable rectifiers
- 4). Free-wheeling diodes
- 5). Recommended snubber network:
RC: 1 μ F, 20 Ω ($P_R=2W$),
 $R_p=25K\Omega$ ($P_R=20W$)



ELECTRICAL SPECIFICATIONS

Symbol	Conditions	Values	V
I_{FAV}	sin. 180; $T_C=85(100)^{\circ}C$	445(400)	A
I_D	K 0.55; $T_a=45^{\circ}C$; B2/B6	310/450	A
	K 0.55F; $T_a=35^{\circ}C$; B2/B6	700/1000	A
I_{FSM}	$T_{vj}=25^{\circ}C$; 10ms	9000	A
	$T_{vj}=160^{\circ}C$; 10ms	7500	A
I^2t	$T_{vj}=25^{\circ}C$; 8,3 ... 10ms	400000	A ₂ S
	$T_{vj}=160^{\circ}C$; 8,3 ... 10ms	280000	A ₂ S
V_F	$T_{vj}=25^{\circ}C$; $I_F=1200A$	max. 1.45	V
$V_{(TO)}$	$T_{vj}=160^{\circ}C$	max. 0.9	V
r_T	$T_{vj}=160^{\circ}C$	max. 0.5	m Ω
I_{RD}	$T_{vj}=160^{\circ}C$; $V_{RD}=V_{RRM}$	max. 60	mA
Q_{rr}	$T_{vj}=160^{\circ}C$; $-di_F/dt=10A \mu s$	400	μC
$R_{th(j-c)}$		0.11	K/W
$R_{th(c-s)}$		0.01	K/W
T_{vj}		-40 ... +160	$^{\circ}C$
T_{stg}		-55 ... +160	$^{\circ}C$

Symbol	Conditions	Values	V
V_{isol}		-	V~
M_s	to heatsink	60	Nm
a		5*9.81	m/s ²
m	approx.	500	g
Case		E17	

PERFORMANCE CURVES FIGURE

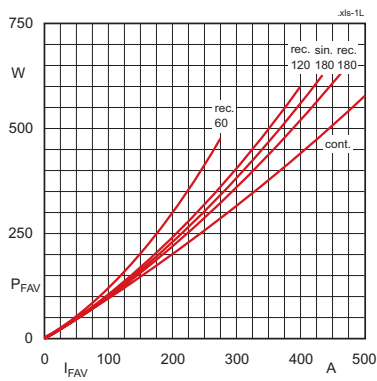


Fig. 1L Power dissipation vs. forward current

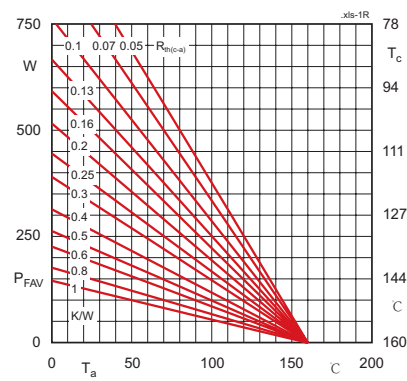


Fig. 1R Power dissipation vs. ambient temperature

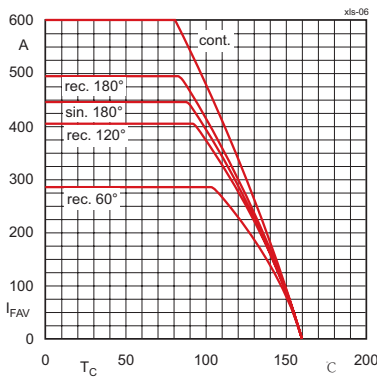


Fig. 2 Forward current vs. case temperature

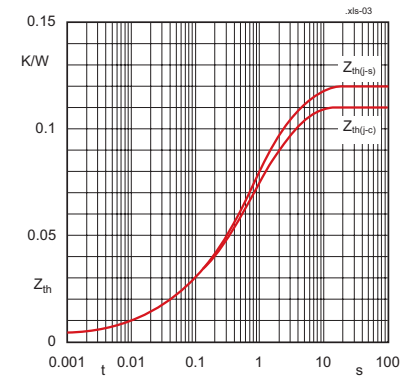


Fig. 4 Transient thermal impedance vs. time

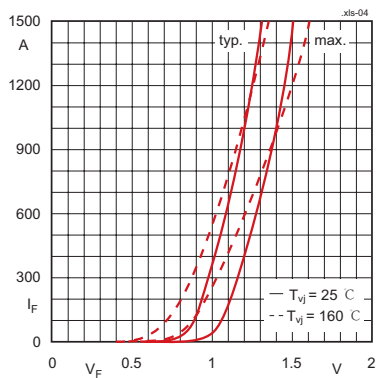


Fig. 5 Forward characteristics

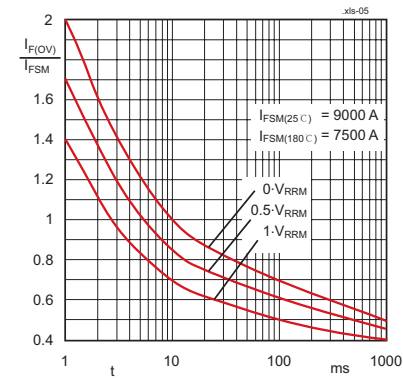
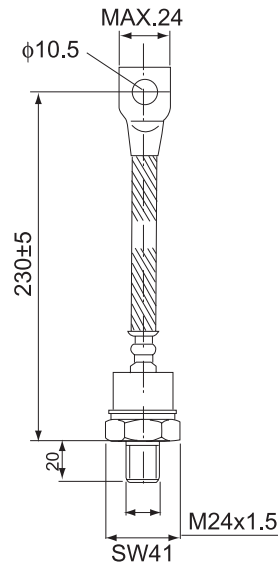


Fig. 6 Surge overload current vs. time

OUTLINE



SKD10

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