SKR240

Rectifier Diode

STUD VERSION

Liujing rectifier co., Ltd.

FEATURES

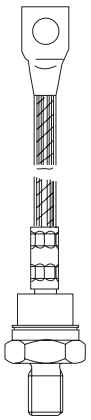
1). Reverse voltages up to 1800V
2). Hermetic metal case with glass insulator
3). Threaded stud ISO M16 × 1.5
4). SKR240/04.../16 also available with threaded stud 3/4-16UNF(e.g. SKR240/12UNF)
4). SKR: cathode to stud

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: 0.5 μ F, 30Ω (P_R=2W),
R_P=50KΩ (P_R=20W)

MAJOR RATINGS AND CHARACTERISTICS

V_{RSM} V	V_{RRM} V	I_{FRMS}=500A (maximum value for continuous operation) I_{FAV}=240A (sin. 180° ; T_C=125℃)
400	400	SKR 240/04
800	800	SKR 240/08
1200	1200	SKR 240/12
1400	1400	SKR 240/14
1600	1600	SKR 240/16
1800	1800	SKR 240/18



ELECTRICAL SPECIFICATIONS

Symbol	Conditions	Values	V
I_{FAV}	sin. 180; T_C=100℃	320	A
I_D	K 0.55; T_a=45℃; B2/B6	340/480	A
	K 0.55F; T_a=35℃; B2/B6	620/840	A
I_{FSM}	T_{vj}=25℃; 10ms	6000	A
	T_{vj}=180℃; 10ms	5000	A
I^2t	T_{vj}=25℃; 8,3 ... 10ms	180000	A_2S
	T_{vj}=180℃; 8,3 ... 10ms	125000	A_2S
V_F	T_{vj}=25℃; I_F=750A	max. 1.4	V
$V_{(TO)}$	T_{vj}=180℃	max. 0.85	V
r_T	T_{vj}=180℃	max. 0.6	mΩ
I_{RD}	T_{vj}=180℃; V_{RD}=V_{RRM}	max. 60	mA
Q_{rr}	T_{vj}=160℃; -di_F/dt=10A μ s	200	μ C
$R_{th(j-c)}$		0.2	K/W
$R_{th(c-s)}$		0.03	K/W
T_{vj}		-40 ... +180	℃
T_{stg}		-55 ... +180	℃

Symbol	Conditions	Values	V
V_{isol}		-	V~
M_s	to heatsink	30	Nm
a		5*9.81	m/s^2
m	approx.	250	g
Case		E15	

PERFORMANCE CURVES FIGURE

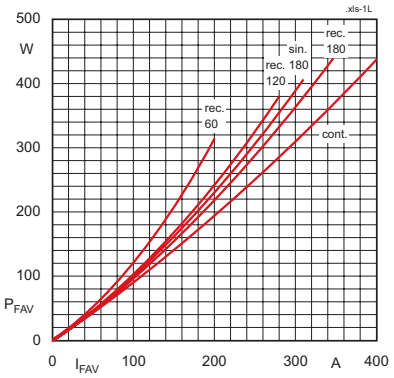


Fig. 1L Power dissipation vs. forward current

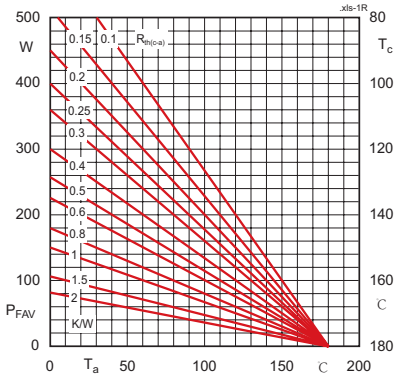


Fig. 1R Power dissipation vs. ambient temperature

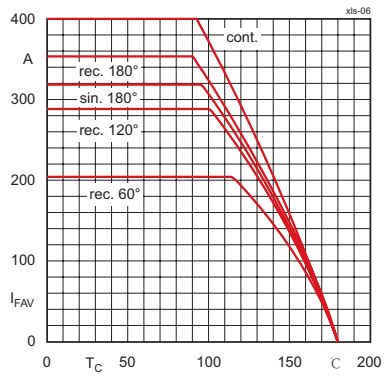


Fig. 2 Forward current vs. case temperature

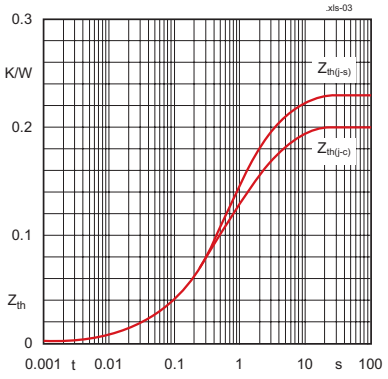


Fig. 4 Transient thermal impedance vs. time

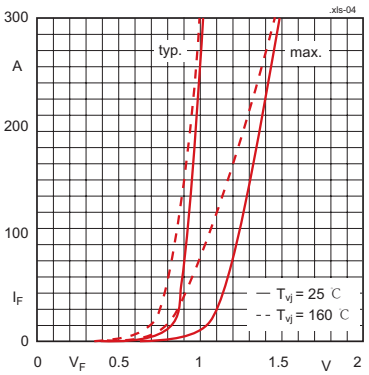


Fig. 5 Forward characteristics

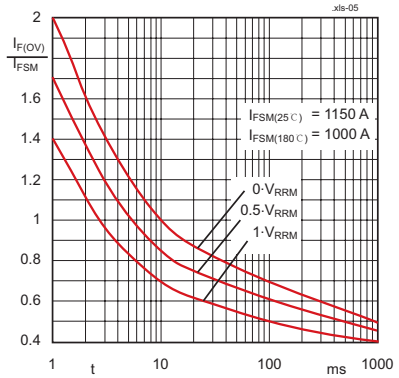
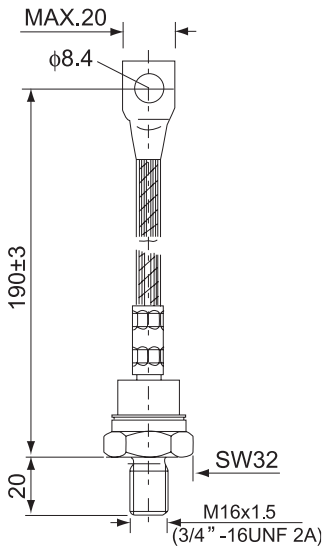


Fig. 6 Surge overload current vs. time

OUTLINE



SKD9

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