SKN320

Rectifier Diode

STUD VERSION

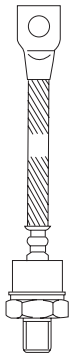
Liujing rectifier co., Ltd.

FEATURES

1). Reverse voltages up to 1600V
2). Hermetic metal case with glass insulator
3). Threaded stud ISO M24 × 1.5
4). SKN: anode 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: 1 μ F, 20 Ω (P_R=2W),
R_P=25K Ω (P_R=20W)



MAJOR RATINGS AND CHARACTERISTICS

V_{RSM} V	V_{RRM} V	I_{FRMS}=700A (maximum value for continuous operation) I_{FAV}=320A (sin. 180° ; T_C=125℃)
400	400	SKN 320/04
800	800	SKN 320/08
1200	1200	SKN 320/12
1400	1400	SKN 320/14
1600	1600	SKN 320/16

ELECTRICAL SPECIFICATIONS

Symbol	Conditions	Values	V
I_{FAV}	sin. 180; T_C=85(100)℃	445(420)	A
I_D	K 1/200; T_a=45℃; B2/B6	480/690	A
	K 0.55F; T_a=35℃; B2/B6	760/1080	A
I_{FSM}	T_{vj}=25℃; 10ms	9000	A
	T_{vj}=180℃; 10ms	8000	A
I^2t	T_{vj}=25℃; 8,3 ... 10ms	400000	A_2S
	T_{vj}=180℃; 8,3 ... 10ms	300000	A_2S
V_F	T_{vj}=25℃; I_F=1000A	max. 1.35	V
$V_{(TO)}$	T_{vj}=180℃	max. 0.8	V
r_T	T_{vj}=180℃	max. 0.45	mΩ
I_{RD}	T_{vj}=180℃; V_{RD}=V_{RRM}	max. 100	mA
Q_{rr}	T_{vj}=160℃; -di_F/dt=10A μ s	300	μ C
$R_{th(j-c)}$		0.16	K/W
$R_{th(c-s)}$		0.015	K/W
T_{vj}		-40 ... +180	℃
T_{stg}		-55 ... +180	℃

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		E16	

PERFORMANCE CURVES FIGURE

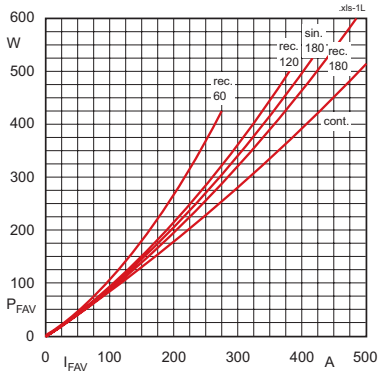


Fig. 1L Power dissipation vs. forward current

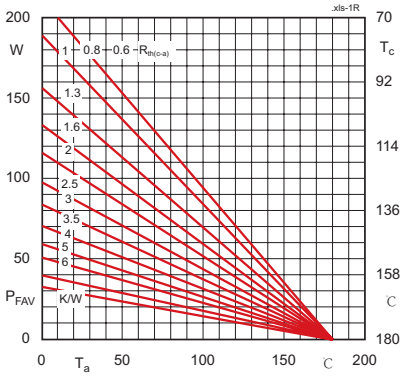


Fig. 1R Power dissipation vs. ambient temperature

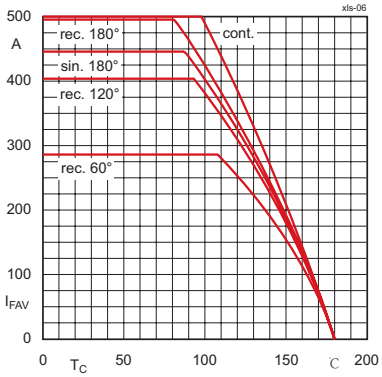


Fig. 2 Forward current vs. case temperature

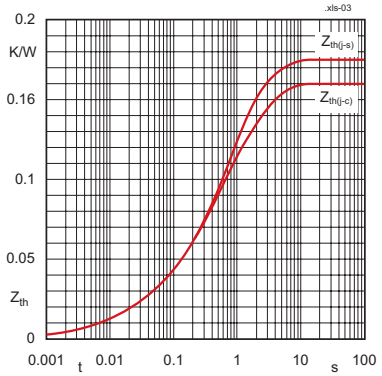


Fig. 4 Transient thermal impedance vs. time

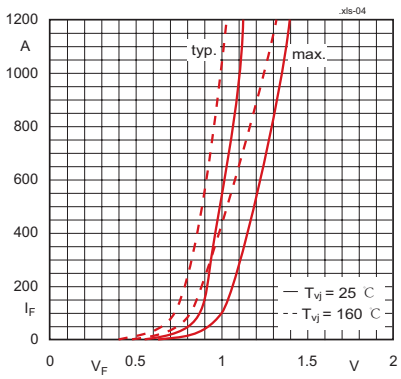


Fig. 5 Forward characteristics

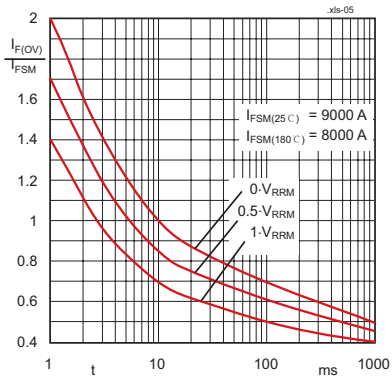
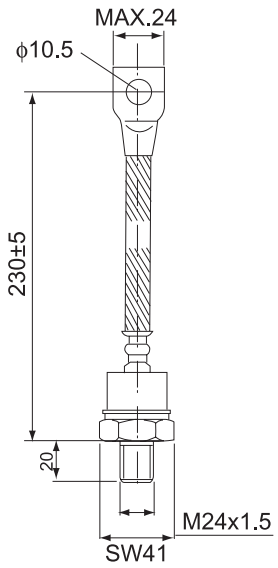


Fig. 6 Surge overload current vs. time

OUTLINE



SKD10

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