

FEATURES

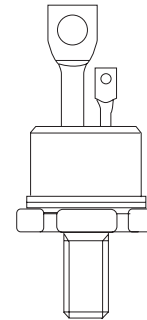
- 1). Hermetic metal case with glass insulator
- 2). Threaded stud ISO M8 or UNF 1/4-28
- 3). International standard case

MAJOR RATINGS AND CHARACTERISTICS

V_{RSM}	V_{RRM} V_{DRM}	$(\frac{dv}{dt})_{cr}$	$I_{TRMS}=63A$ (maximum value for continuous operation)
V	V	V/ μ s	$I_{TAV}=40A$ (sin. 180° ; $T_{case}=80^{\circ}C$)
500	400	500	-
700	600	500	SKT 50/06D ¹⁾
900	800	500	SKT 50/08D
1300	1200	1000	SKT 50/12E ¹⁾
1500	1400	1000	SKT 50/14E ¹⁾
1700	1600	1000	SKT 50/16E
1900	1800	1000	SKT 50/18E※

TYPICAL APPLICATIONS

- 1). DC motor control (e.g. for machine tools)
- 2). Controlled rectifiers (e.g. for battery charging)
- 3). AC controllers (e.g. for temperature control)



1)* Available with UNF thread 1/4-28 UNF2A, e.g. SKT 50/06 D UNF

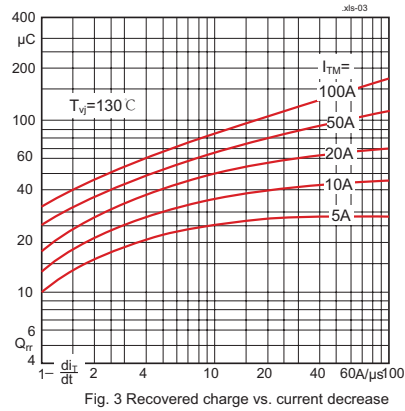
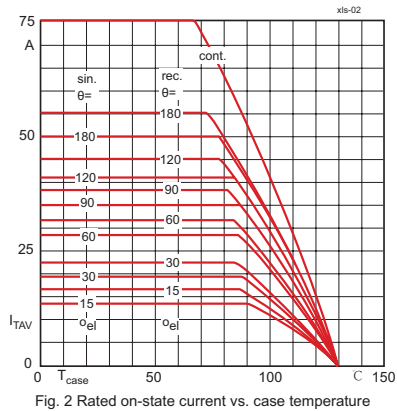
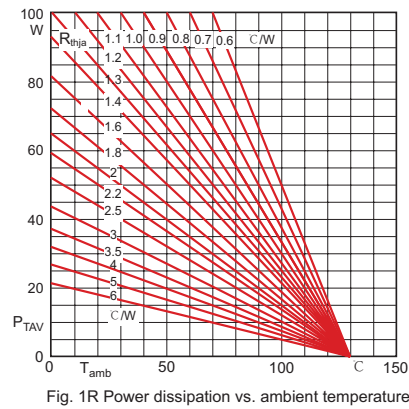
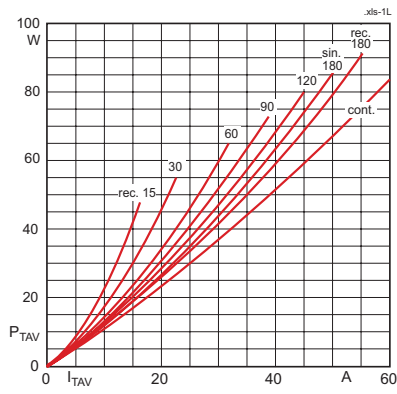
※ Available in limited quantities

ELECTRICAL SPECIFICATIONS

Symbol	Conditions	Values	V
I_{TAV}	sin. 180; $T_c=85^{\circ}C$	45	A
I_{TSM}	$T_{vj}=25^{\circ}C$; 10ms	1050	A
	$T_{vj}=130^{\circ}C$; 10ms	900	A
I^2t	$T_{vj}=25^{\circ}C$; 8,35 ... 10ms	5000	A ₂ S
	$T_{vj}=130^{\circ}C$; 8,35 ... 10ms	4000	A ₂ S
t_{gd}	$T_{vj}=25^{\circ}C$; $I_G=1A$; $di_G/dt=1A/\mu s$	typ.1	μs
t_{gr}	$V_D=0.67 * V_{DRM}$	typ.1.5	μs
$(di/dt)_{cr}$	$f=50...60Hz$	50	A/ μs
I_H	$T_{vj}=25^{\circ}C$	typ. 100; max. 200	mA
I_L	$T_{vj}=25^{\circ}C$; $R_G=33\Omega$	typ. 250; max. 400	mA
t_q	$T_{vj}=130^{\circ}C$; typ.	100	μs
V_T	$T_{vj}=25^{\circ}C$; $I_T=120A$; max.	1.8	V
$V_{T(TO)}$	$T_{vj}=130^{\circ}C$	1.1	V
r_T	$T_{vj}=130^{\circ}C$	5	m Ω
I_{DD} ; I_{RD}	$T_{vj}=130^{\circ}C$; $V_{DD}=V_{DRM}$; $V_{RD}=V_{RRM}$	8	mA

Symbol	Conditions	Values	V
V_{GT}	$T_{vj}=25^{\circ}\text{C}$;	3	V
I_{GT}	$T_{vj}=25^{\circ}\text{C}$;	150	mA
V_{GD}	$T_{vj}=130^{\circ}\text{C}$	0.25	V
I_{GD}	$T_{vj}=130^{\circ}\text{C}$	5	mA
R_{thjc}	cont.	0,57	$^{\circ}\text{C}/\text{W}$
	sin.180	0,60	$^{\circ}\text{C}/\text{W}$
	rec.120	0,65	$^{\circ}\text{C}/\text{W}$
R_{thch}		0.20	$^{\circ}\text{C}/\text{W}$
T_{vj}		-40...+130	$^{\circ}\text{C}$
T_{stg}		-55...+150	$^{\circ}\text{C}$
M	SI units	4(UNF: 2.5)	Nm
	US units	35(UNF: 22)	lb.in.
a		5*9.81	m/s^2
w		2.2	g
Case		B3	

PERFORMANCE CURVES FIGURE



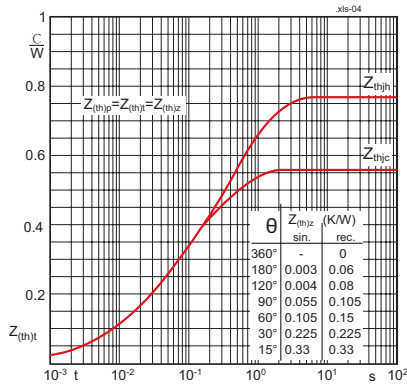


Fig. 4 Transient thermal impedance vs. time

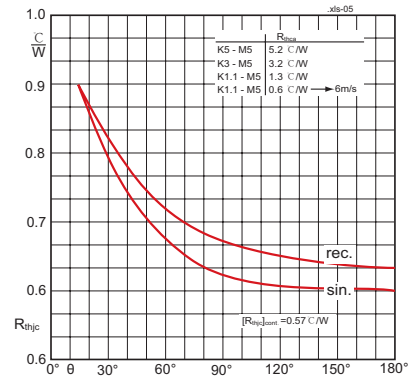


Fig. 5 Thermal resistance vs. conduction angle

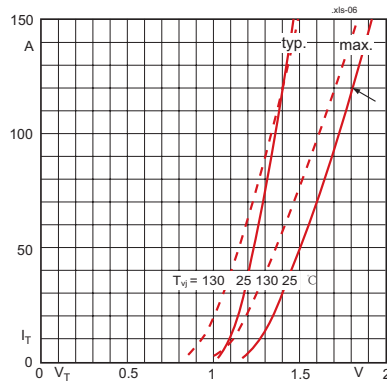


Fig. 6 On-state characteristics

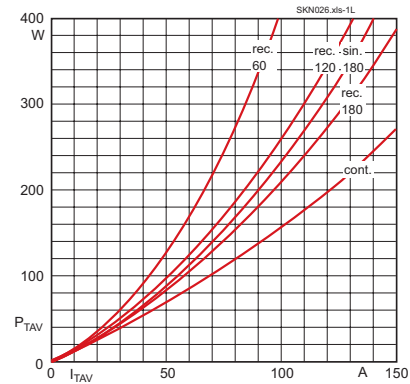


Fig. 7 Power dissipation vs. on-state current

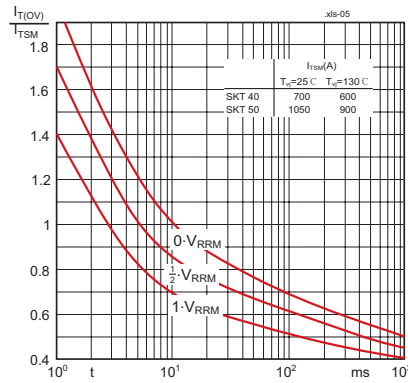


Fig. 8 Surge overload current vs. time

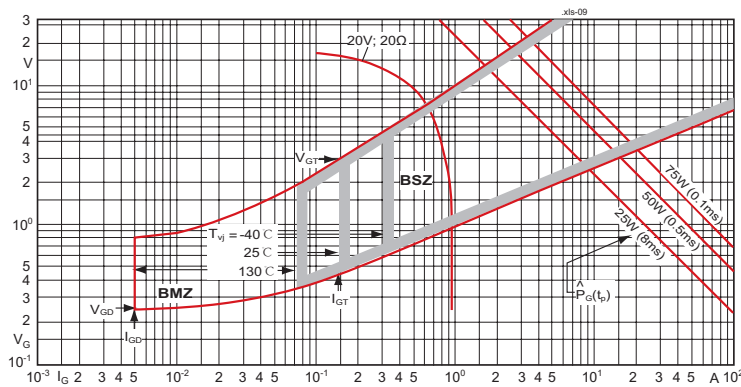
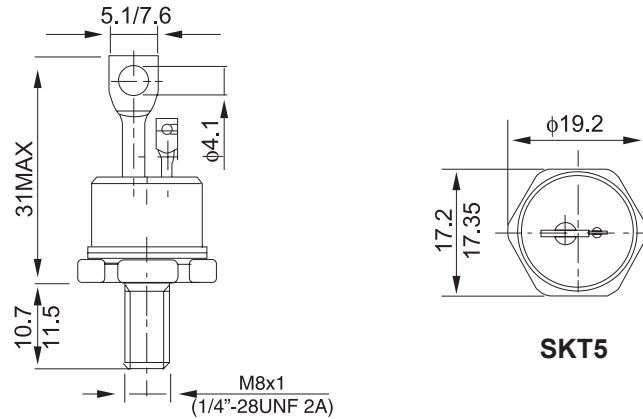


Fig. 9 Gate trigger characteristics

OUTLINE



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