

Features:

- Isolated mounting base 4000V~
- Pressure contact technology with Increased power cycling capability
- Space and weight saving
- UL Recognized

Typical Applications:

- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter

VRRM,VDRM	Type & Outline
2600V	DSKT500/26
2800V	DSKT500/28
3000V	DSKT500/30
3200V	DSKT500/32
3400V	DSKT500/34
3600V	DSKT500/36

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T _f (°C)	VALUE			UNIT
				Min	Type	Max	
I _{T(AV)}	Mean on-state current	180° half sine wave 50Hz Single side cooled, T _c =85°C	125			500	A
I _{T(RMS)}	RMS on-state current					785	A
I _{DRM} I _{RRM}	Repetitive peak current	at V _{DRM} at V _{RRM}	125			55	mA
I _{TSM}	Surge on-state current	V _R =60%V _{RRM} ,t=10ms half sine,	125			12.5	kA
I ² t	I ² t for fusing coordination		125			781	10 ³ A ² s
V _{TO}	Threshold voltage		125			0.90	V
r _T	On-state slope resistance					0.50	mΩ
V _{TM}	Peak on-state voltage	I _{TM} =1500A	25			2.48	V
dv/dt	Critical rate of rise of off-state voltage	V _{DM} =67%V _{DRM}	125			1000	V/μs
di/dt	Critical rate of rise of on-state current	Gate source 1.5A t _r ≤0.5μs Repetitive	125			200	A/μs
I _{GT}	Gate trigger current	V _A =12V, I _A =1A	25	30		200	mA
V _{GT}	Gate trigger voltage			0.8		3.0	V
I _H	Holding current			20		200	mA
I _L	Latching current					1000	mA
V _{GD}	Non-trigger gate voltage	V _{DM} =67%V _{DRM}	125			0.20	V
R _{th(j-c)}	Thermal resistance Junction to case	Single side cooled per chip				0.054	°C/W
R _{th(c-h)}	Thermal resistance case to heatsink	Single side cooled per chip				0.024	°C/W
V _{iso}	Isolation voltage	50Hz,R.M.S,t=1min,I _{iso} :1mA(MAX)		4000			V
F _m	Terminal connection torque(M12)			12		16	N·m
	Mounting torque(M8)			10		12	N·m
T _{vj}	Junction temperature			-40		125	°C
T _{stg}	Stored temperature			-40		125	°C
W _t	Weight				3310		g

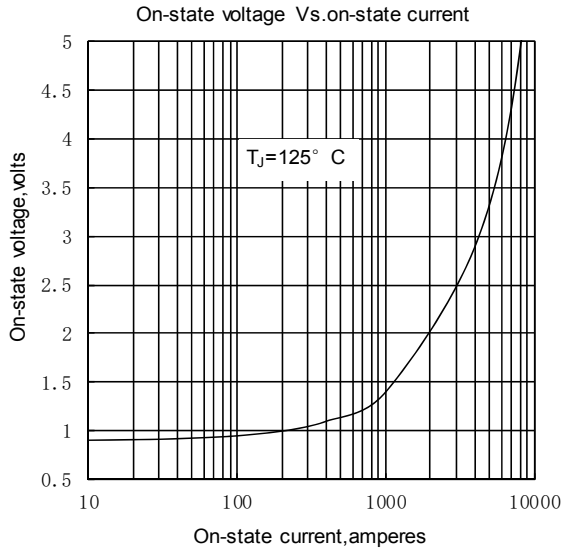


Fig.1

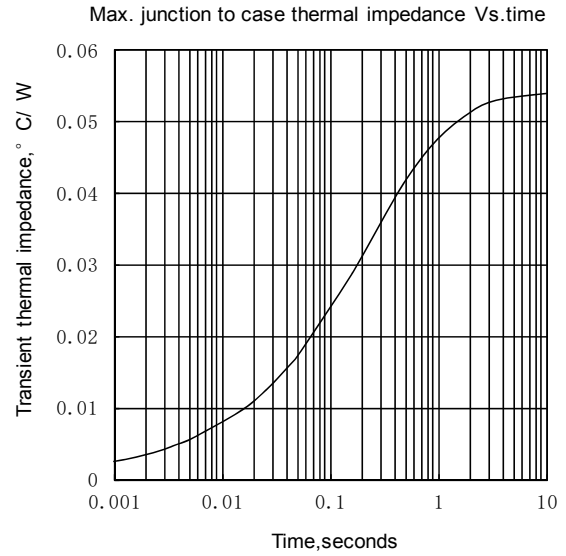


Fig.2

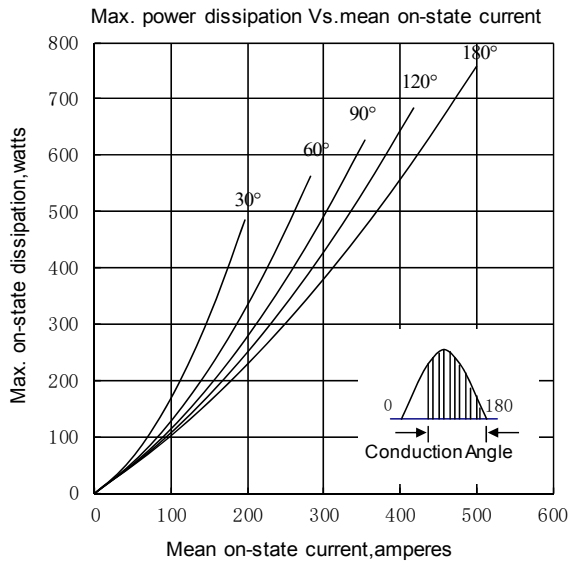


Fig.3

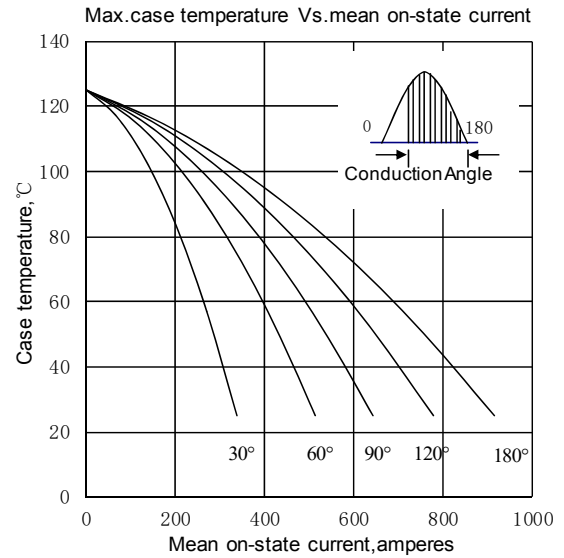


Fig.4

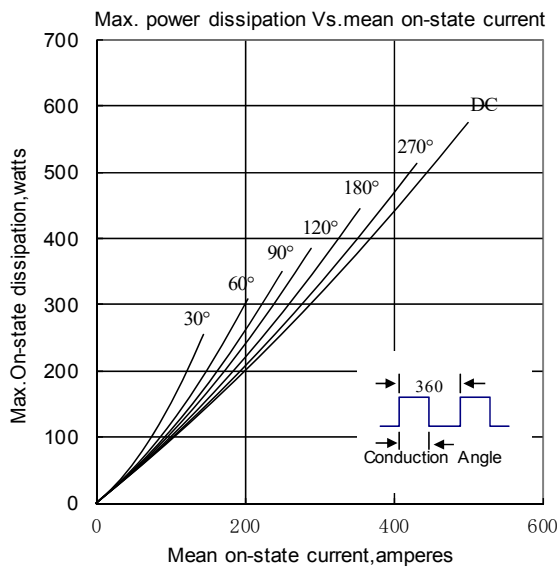


Fig.5

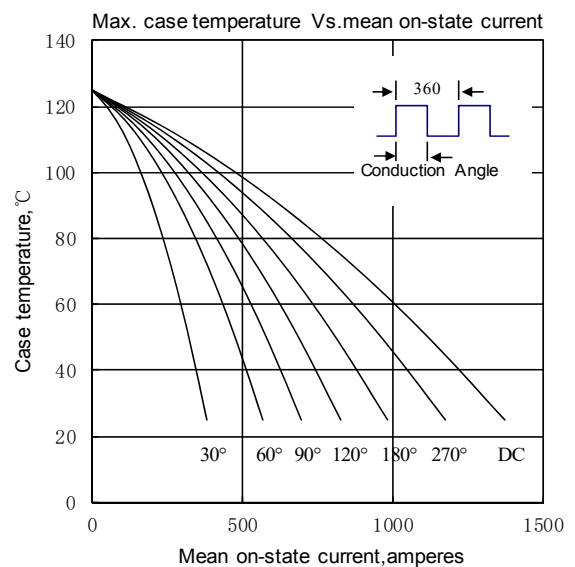


Fig.6

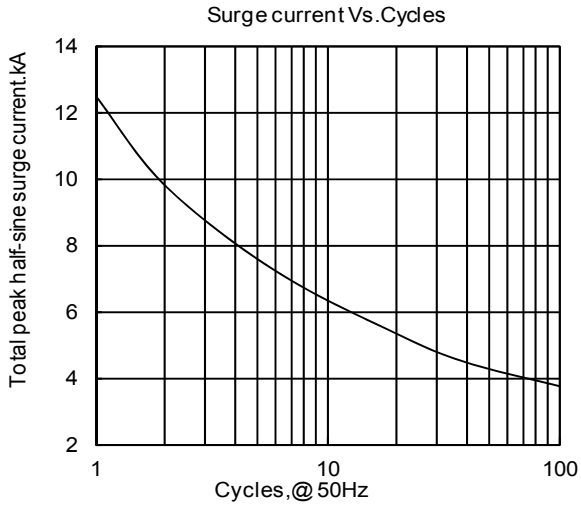


Fig. 7

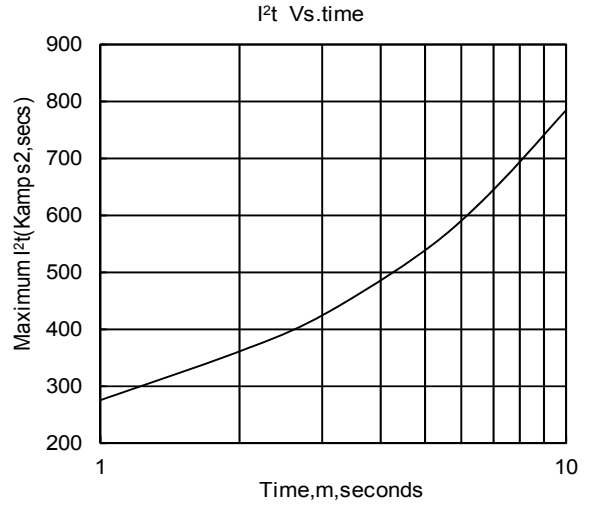


Fig. 8

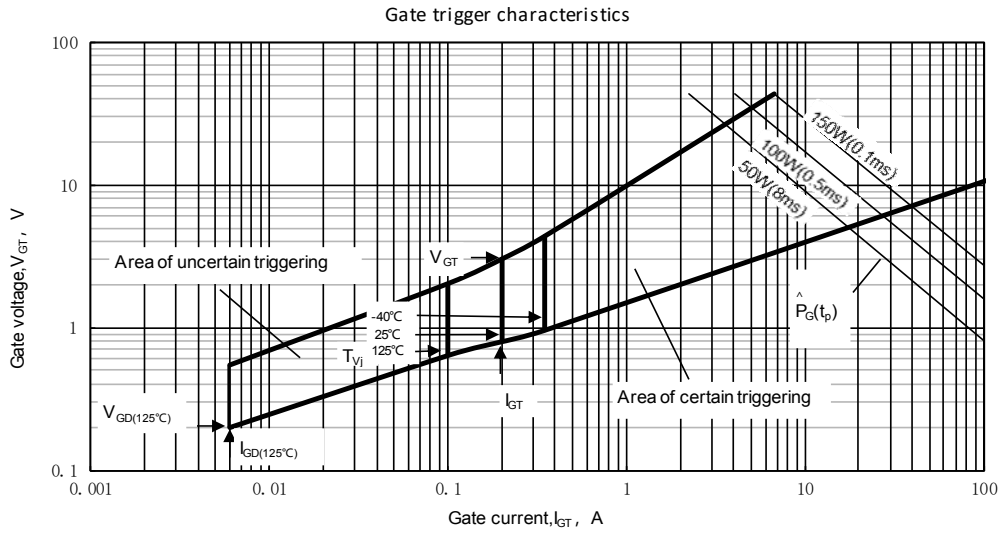
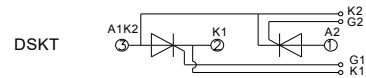
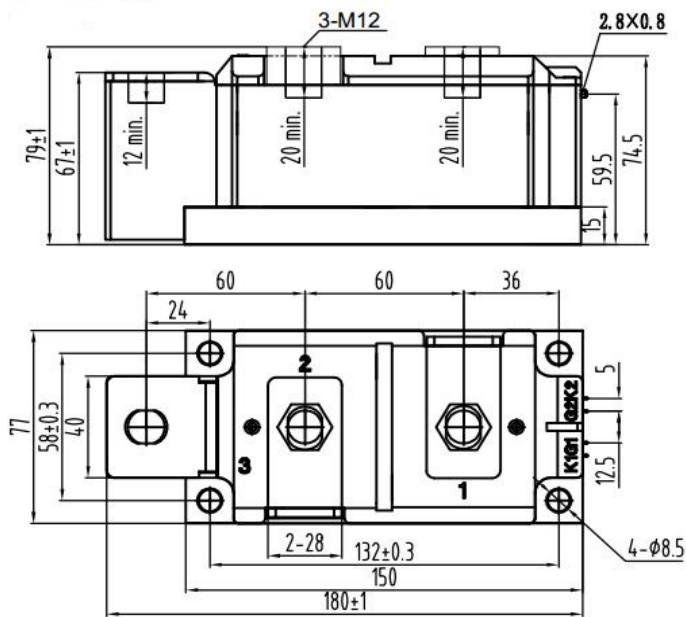


Fig.9

Outline:



Unmarked dimensional tolerance: ±0.5mm

DYNSEM reserves the right to change specifications without notice.