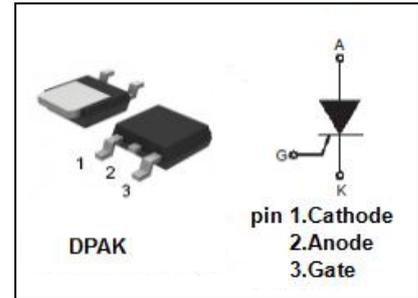


isc Thyristors
TS420-600B
APPLICATIONS

- Highly sensitive triggering levels
- For capacitive discharge ignitions, motor control in kitchen aids, overvoltage crowbar protection in low power supplies applications.


ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	MIN	UNIT
V _{DRM}	Repetitive peak off-state voltage	600	V
V _{RDM}	Repetitive peak reverse voltage	600	V
I _{T(AV)}	On-state current 180° conduction angle	4	A
I _{TSM}	Non-repetitive surge peak on-state current t= 20ms	33	A
P _{G(AV)}	Average gate power dissipation	0.2	W
T _j	Junction temperature	125	°C
T _{stg}	Storage temperature	-40 to + 150	°C

ELECTRICAL CHARACTERISTICS (T_c=25°C unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _{RM} =V _{RRM} , V _{RM} =V _{RRM} , T _j =125°C		5 1000	μ A
I _{DRM}	Repetitive peak off-state current	V _{DM} =V _{DRM} , V _{DM} =V _{DRM} , T _j =125°C		5 1000	μ A
V _{TM}	On-state voltage	I _{TM} = 8A, t _p = 380 μs		1.6	V
I _{GT}	Gate-trigger current	V _D =12V, R _L =140 Ω, R _{GK} =1K Ω		200	μ A
V _{GT}	Gate-trigger voltage	V _D =12V, R _L =140 Ω, R _{GK} =1K Ω		1.5	V
I _H	Holding current	V _D =24V, R _{GK} =1K Ω, I _{TM} =50mA		5	mA

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