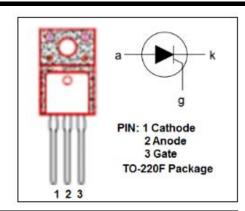


isc Thyristors TF841S

APPLICATIONS

- It is suitable to fit all modes of control found in applications such as overvoltage crowbar protection, motor control circuits in power tools and kitchen aids, in-rush current limiting circuits, capacitive discharge ignition, voltage regulation circuits etc.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage	400	V
V _{RRM}	Repetitive peak reverse voltage	400	V
I _{T(AV)}	Average on-stage current	8.0	Α
I _{TSM}	Surge non-repetitive on-state current tp=10ms	80	Α
l ² t	I ² t for fusing tp=10ms	64	A ² S
P _{G(AV)}	Average gate power dissipation over any 20 ms period	0.5	W
Tj	Operating junction temperature	-40~125	$^{\circ}\!\mathbb{C}$
T _{stg}	Storage temperature	-40~125	$^{\circ}\!\mathbb{C}$

ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _{RM} =V _{RRM}	T _j =125℃		2.0	mA
I _{DRM}	Repetitive peak off-state current	V _{DM} =V _{DRM}	T _j =125℃		2.0	mA
V_{TM}	On-state voltage	I _{TM} = 15A			1.4	V
I _{GT}	Gate-trigger current	- V _D =12V, R _L =100Ω		15	mA	
V _{GT}	Gate-trigger voltage	VD-12V, INL-10022		1.5	V	
$R_{\text{th(j-c)}}$	Thermal resistance	Junction to case			1.3	°C/W

NOTICE:

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