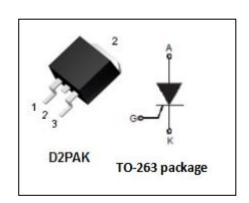


Thyristors USF10G48

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℃)

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	10	А
I _{T(RMS)}	RMS on-state current	16	А
I _{TSM}	Surge non-repetitive on-state current @ f=50Hz	160	Α
P _{G(AV)}	Average gate power dissipation	0.5	W
T _j	Operating junction temperature	-40~125	$^{\circ}$
T _{stg}	Storage temperature	-40~150	$^{\circ}$

ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _{RM} =V _{RRM}		10	μ A
I _{DRM}	Repetitive peak off-state current	V _{DM} =V _{DRM}		10	μ A
V_{TM}	On-state voltage	I _{TM} = 30A		1.5	V
I _{GT}	Gate-trigger current	$V_D = 6 \text{ V}; R_L = 10\Omega$		10	mA
V_{GT}	Gate-trigger voltage	$V_D = 6 \text{ V}; R_L = 10\Omega$		1	V
R _{th(j-c)}	Thermal resistance	Junction to case		2.5	°C/W

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