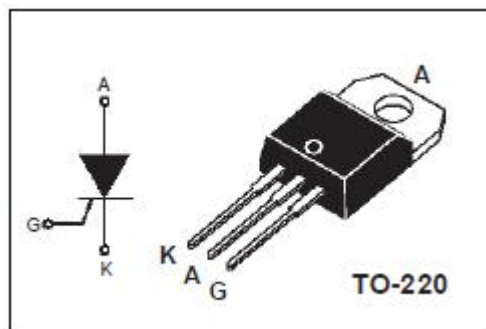


isc Thyristors

MCR72-8

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.

ABSOLUTE MAXIMUM RATINGS($T_a=25^{\circ}\text{C}$)

SYMBOL	PARAMETER	MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage	600	V
V_{RRM}	Repetitive peak reverse voltage	600	V
$I_{\text{T(RMS)}}$	Average on-state current @ $T_c=83^{\circ}\text{C}$	8	A
I_{TSM}	Surge non-repetitive on-state current $T_j=110^{\circ}\text{C}$ $T_P=10\text{ms}$	100	A
$P_{\text{G(AV)}}$	Average gate power dissipation over any 20 ms period	0.75	W
T_j	Operating junction temperature	-40~110	$^{\circ}\text{C}$
T_{stg}	Storage temperature	-40~150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS ($T_c=25^{\circ}\text{C}$ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
I_{RRM}	Repetitive peak reverse current	$V_{\text{RM}}=V_{\text{RRM}}, R_{\text{GK}}=1\text{K}\Omega$		10	μA
				500	μA
I_{DRM}	Repetitive peak off-state current	$V_{\text{DM}}=V_{\text{DRM}}, R_{\text{GK}}=1\text{K}\Omega$		10	μA
				500	μA
V_{TM}	On-state voltage	$I_{\text{TM}}=16\text{A}$		2.0	V
I_{GT}	Gate-trigger current	$V_{\text{D}}=12\text{V}; R_{\text{L}}=100\Omega$		200	mA
V_{GT}	Gate-trigger voltage	$V_{\text{D}}=12\text{V}; R_{\text{L}}=100\Omega$		1.5	V
$R_{\text{th(j-c)}}$	Thermal resistance	Junction to case		2.2	$^{\circ}\text{C/W}$

NOTICE:

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