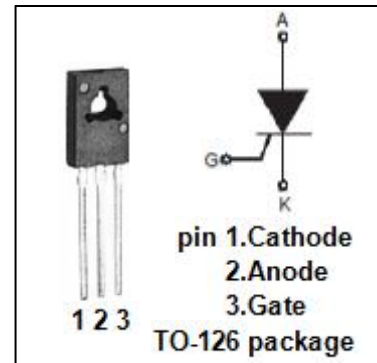


isc Thyristors

C106DG

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

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-state current	2.25	A
$I_{T(RMS)}$	RMS on-state current	4.0	A
I_{TSM}	Surge non-repetitive on-state current	20	A
$P_{G(AV)}$	Average gate power dissipation	0.1	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}, I_{DRM}	Peak Repetitive Forward or Reverse Blocking Current	$V_{RM}=V_{RRM}$		10	μA
		$T_j=25^\circ\text{C}$			
		$T_j=110^\circ\text{C}$		100	μA
V_{TM}	On-state voltage	$I_{TM}=4\text{A}$		2.2	V
I_{GT}	Gate-trigger current	$V_D=6\text{V}; R_L=100\Omega$		0.2	mA
V_{GT}	Gate-trigger voltage		0.4	0.8	V
$R_{th(j-c)}$	Thermal resistance	Junction to case		3.0	$^\circ\text{C}/\text{W}$

NOTICE:

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