

TYPE: MTG150-06

Features

- Triple arms
- Non-insulated type

Typical Applications

- Welding power Supply
- Various DC power Supply

MTG150-06 is a thyristor module suitable for low voltage ,3 phase recifier applications

V_{DRM}/V_{RRM}	$T_j=125^{\circ}\text{C}$	400	V
V_{RSM}	$T_j=125^{\circ}\text{C}$	500	V

Maximum Ratings

Symbol	Condition	Ratings	Unit
$I_{T(AV)}$	sin. 180; $T_c = 85^{\circ}\text{C}$,	150	A
I_{TRMS}	sin. 180; $T_c = 85^{\circ}\text{C}$,	230	A
I_{TSM}	$T_{vj} = 25^{\circ}\text{C}$; 10 ms	3230	A
I^2t	$T_{vj} = 25^{\circ}\text{C}$; 8,3...10 ms	360	kA^2S
$(di/dt)_{cr}$	non-repetitive	100	A/us
V_{iso}	A.C. 1s / 1min.	3600/3000	V
T_j		-40 ~ + 125	$^{\circ}\text{C}$
T_{stg}		-40 ~ + 125	$^{\circ}\text{C}$
M	mounting torque M6	2-3	N.m
W	About	-	g

Electrical Characteristics

Symbol	Condition	Ratings	Unit
I_{DRM} / I_{RRM}	At V_{DRM} , $T_j = 125^{\circ}\text{C}$	40	mA
V_T	On-State Current 450A, $T_j = 25^{\circ}\text{C}$	1.2	V
$V_{T(TO)}$	$T_j = 125^{\circ}\text{C}$	-	V
t_{gd}	$T_j = 25^{\circ}\text{C}$	-	us
t_q	$T_j = 125^{\circ}\text{C}$	-	us
I_{GT}/V_{GT}	$T_j = 25^{\circ}\text{C}$	100 / 3	mA/V
V_{GD}	$T_j = 125^{\circ}\text{C}$	0.25	V
$(dv/dt)_{cr}$	$T_j = 125^{\circ}\text{C}$	200	V/us
I_H	$T_j = 25^{\circ}\text{C}$, typ. / max.	-	mA
I_L	$T_j = 25^{\circ}\text{C}$, typ. / max.	-	mA
$R_{th(j-c)}$	1/3 Module	0.15	$^{\circ}\text{C}/\text{W}$
$R_{th(c-s)}$	1/3 Module	0.15	$^{\circ}\text{C}/\text{W}$



Outline Drawing

