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GMTT62050

DUAL SCR MODULE

Insulated module
High current, high voltage applications

VOLTAGE UP TO	**1600**	**V**
AVERAGE OUTPUT CURRENT	**500**	**A**

BLOCKING CHARACTERISTICS

Characteristic		Conditions	Value
V_{RRM}	Repetitive peak reverse voltage		1600 V
V_{RSM}	Non-repetitive peak reverse voltage		1700 V
V_{DRM}	Repetitive peak off-state voltage		1600 V
I_{RRM}	Repetitive peak reverse current, max.	V_R, single phase, half wave, Tj = Tjmax	100 mA
V_{INS}	RMS insulation voltage	50Hz, 1s, shorted terminals to base	3000 V

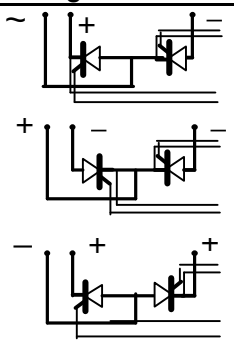
ON-STATE CHARACTERISTICS

$I_{T(AV)}$	Average on-state current	Tc = 85 °C	500 A
I_{TSM}	Surge current	Non rep. half sine wave, 50 Hz, V_R = 0 V, $T_j = T_{jmax}$	15 kA
I^2t	I^2t for fusing coordination	Non rep. half sine wave, 50 Hz, V_R = 0 V, $T_j = T_{jmax}$	1125 kA^2s
$V_{T(TO)}$	Threshold voltage	$T_j = T_{jmax}$	0.9 V
r_T	Forward slope resistance	$T_j = T_{jmax}$	0.27 mΩ
V_{TM}	Forward voltage, max	Forward current I_F = 1570 A, Tj = 25 °C	1.35 V

THERMAL AND MECHANICAL CHARACTERISTICS

$R_{th(j-c)}$	Thermal resistance (junction to case)		0.065 °C/W
$R_{th(c-h)}$	Thermal resistance (case to heatsink)		0.020 °C/W
T_{jmax}	Operating junction temperature		-40 / 125 °C
F	Mounting torque +/- 10%	Module to heatsink	7 N·m
	Mass		1500 g

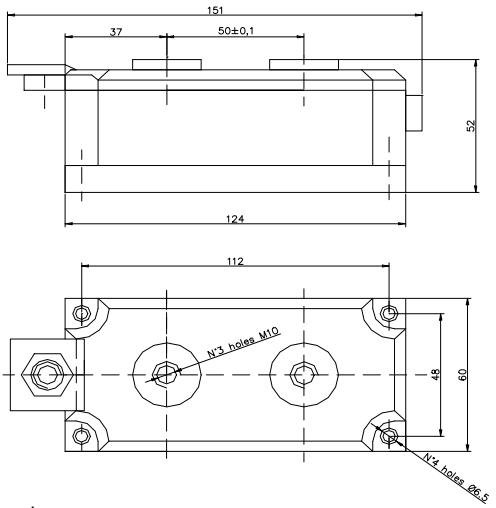
Ordering information



GMTT62050-xx
xx=VRRM/100

GMTT62050-xx-C
xx=VRRM/100
common cathode

GMTT62050-xx-A
xx=VRRM/100
common anode



dimensions mm