



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
VRRM	Repetitive peak reverse voltage	1600 V
VRSM	Non-repetitive peak reverse voltage	1700 V
VDRM	Repetitive peak off-state voltage	1600 V
IRRM	Repetitive peak reverse current, max.	V _R , single phase, half wave, T _j = T _{jmax}
V _{INS}	RMS insulation voltage	50Hz, 1s, shorted terminals to base

ON-STATE CHARACTERISTICS

I _{T(AV)}	Average on-state current	T _c = 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 ² t	I ² t for fusing coordination	Non rep. half sine wave, 50 Hz, V _R = 0 V, T _j = T _{jmax}	1125 kA ² s
V _{T(TO)}	Threshold voltage	T _j = T _{jmax}	0.9 V
Γ _T	Forward slope resistance	T _j = T _{jmax}	0.27 mΩ
V _{TM}	Forward voltage, max	Forward current I _F = 1570 A, T _j = 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

