

TOSHIBA GTR Module Silicon N Channel IGBT

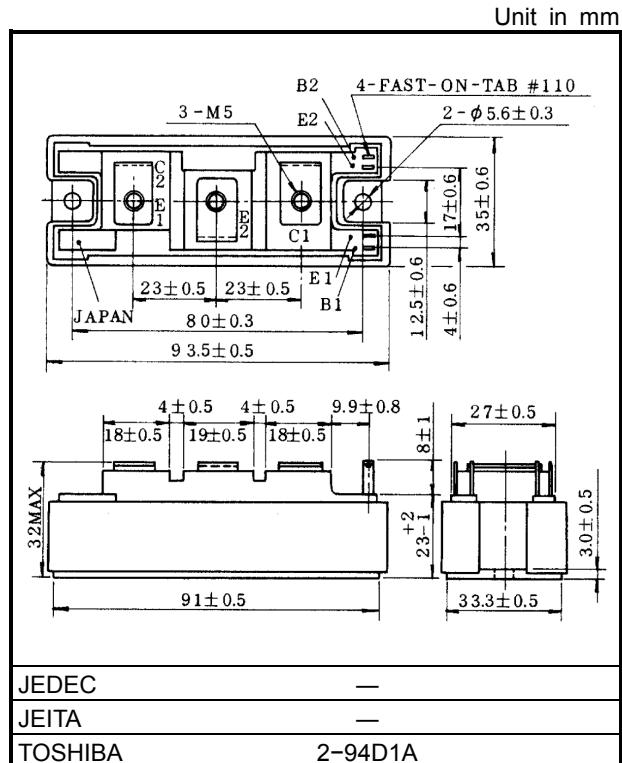
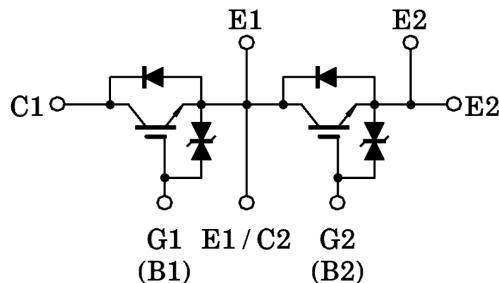
MG50Q2YS40

High Power Switching Applications.

Motor Control Applications.

- High input impedance
- High speed: $t_f = 0.5\mu s$ (max.)
 $t_{rr} = 0.5\mu s$ (max.)
- Low saturation voltage
: $V_{CE(sat)} = 4.0V$ (max.)
- Enhancement-mode
- Includes a complete half bridge in one package.
- The electrodes are isolated from case.

Equivalent Circuit



Weight: 202g

Maximum Ratings ($T_a = 25^\circ C$)

Characteristic		Symbol	Rating	Unit
Collector-emitter voltage		V_{CES}	1200	V
Gate-emitter voltage		V_{GES}	±20	V
Collector current	DC	I_C	50	A
	1ms	I_{CP}	100	
Forward current	DC	I_F	50	A
	1ms	I_{FM}	100	
Collector power dissipation ($T_c = 25^\circ C$)		P_C	400	W
Junction temperature		T_j	150	°C
Storage temperature range		T_{stg}	-40~125	°C
Isolation voltage		V_{Isol}	2500 (AC 1 minute)	V
Screw torque (terminal / mounting)		—	3 / 3	N·m