

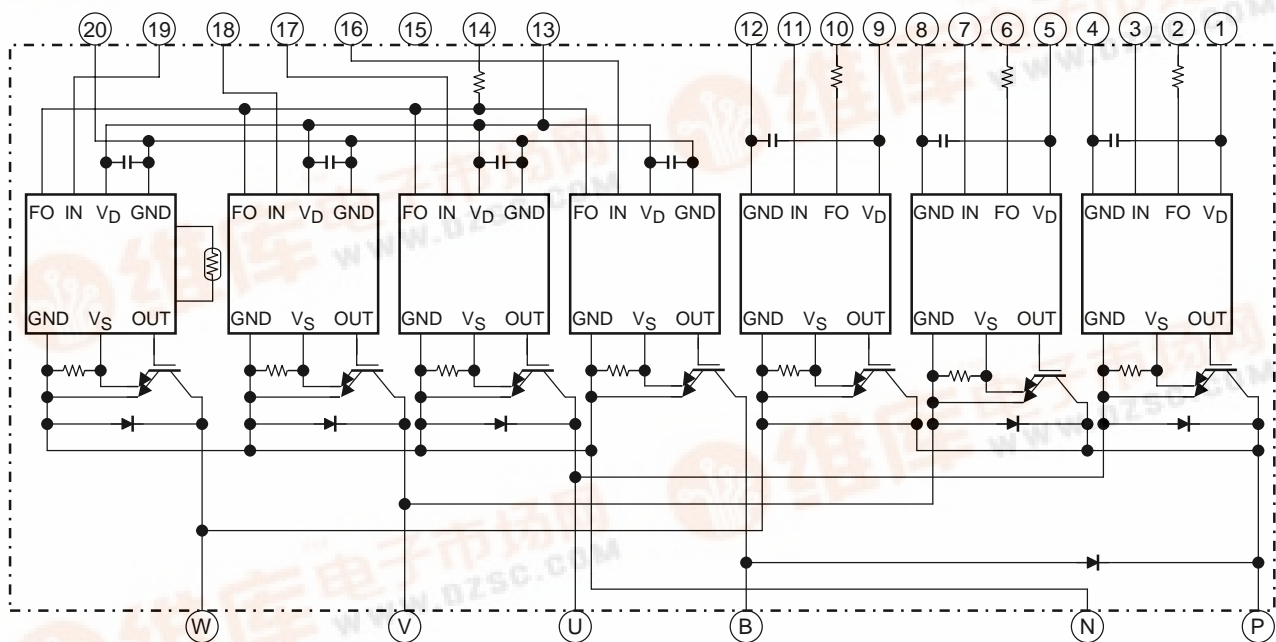
TOSHIBA Intelligent Power Module Silicon N Channel IGBT

MIG50Q7CSB1X (1200V/50A 7in1)

High Power Switching Applications
Motor Control Applications

- Integrates inverter, brake power circuits and control circuits (IGBT drive units, protection units for short-circuit current, over current, under voltage and over temperature) in one package.
- The electrodes are isolated from case.
- $V_{CE(sat)} = 2.2\text{ V (typ.)}$
- UL recognized File No. E87989
- Weight: 278 g (typ.)

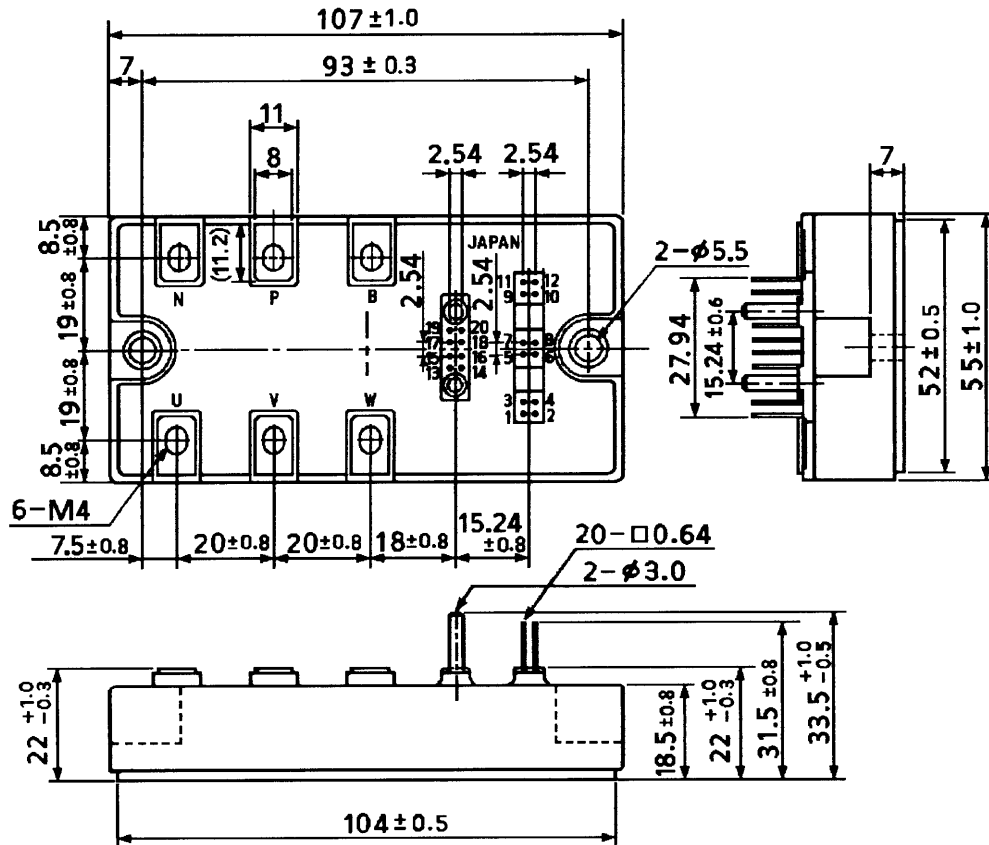
Equivalent Circuit



1. V_D (U)	2. FO (U)	3. IN (U)	4. GND (U)	5. V_D (V)	6. FO (V)	7. IN (V)
8. GND (V)	9. V_D (W)	10. FO (W)	11. IN (W)	12. GND (W)	13. V_D (L)	14. FO (L)
15. Open	16. IN (B)	17. IN (X)	18. IN (Y)	19. IN (Z)	20. GND (L)	

Package Dimensions: TOSHIBA 2-108G1A

Unit: mm



- | | | | | | | | | | | | |
|-----|-----------|-----|---------|-----|-----------|-----|---------|-----|-----------|-----|---------|
| 1. | V_D (U) | 2. | FO (U) | 3. | IN (U) | 4. | GND (U) | 5. | V_D (V) | 6. | FO (V) |
| 7. | IN (V) | 8. | GND (V) | 9. | V_D (W) | 10. | FO (W) | 11. | IN (W) | 12. | GND (W) |
| 13. | V_D (L) | 14. | FO (L) | 15. | Open | 16. | IN (B) | 17. | IN (X) | 18. | IN (Y) |
| 19. | IN (Z) | 20. | GND (L) | | | | | | | | |

