

Main Specifications

Part number		TB9103FTG
Supported motors		Brushed DC motor
Number of output channels		One channel (When used as H-bridge) / two channels (When used as half-bridge)
Main functions		Sleep function, built-in charge pump, H-bridge operation, half-bridge operation, dead time control
Main fault detections		Power supply low voltage detection, charge pump high voltage detection, overheat detection, VGS and VDS detections of external MOSFET
Absolute maximum ratings (Ta=-40 to 125°C)	Power supply voltage 1 VB Vb (V)	-0.3 to 18 18 to 40 (within one second)
	Power supply voltage 2 VCC Vcc (V)	-0.3 to 6
	Ambient temperature Ta (°C)	-40 to 125
	Operating range (Ta=-40 to 125°C)	
Operating range (Ta=-40 to 125°C)	Power supply voltage operating range 1 VB VBrng (V)	7 to 18
	Power supply voltage operating range 2 VCC VCCrng (V)	4.5 to 5.5
	Junction temperature operating range Tjrng (°C)	-40 to 150
Package	Type	P-VQFN24-0404-0.50-003
	Size (mm) Typ.	4.0×4.0
Reliability		To be AEC-Q100 (Grade1) qualified