

Main specifications of the power management IC, MB39A145

Operating Voltage Range	6.0V ~ 28.0V
Power Method	Bottom detection comparator method, buck converter, 2 channel
Operating Frequency	310KHz, 620KHz, 1MHz (with internal preset)
Voltage Precision	±0.7% (room temp.)
Voltage Range	0.7V ~ 5.5V
Start / Stop	Soft start circuit independent of loads / discharge control circuit
PFM/PWM Functions	Selectable: Auto switching mode, PWM mode
Protection Functions	UVLO/OCP/OVP/UVP/OTP
Operating Temperature	-30°C ~ +85°C
Package	Plastic TSSOP-24 pin (0.50mm pitch)

- \*1. PFM (Pulse Frequency Modulation): When in operation in this DC/DC converter, if frequency is reduced when in low current ranges, the voltage conversion is done at higher efficiency, thus resulting in lower power consumption.
- \*2. Voltage Precision: Precision measured on evaluation board and conditions set, by Fujitsu Microelectronics.
- \*3. UVLO/OCP/OVP/UVP/OTP: Under Voltage Lock-Out / Over Current Protection / Over Voltage Protection / Under Voltage Protection / Over Temperature Protection.