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What is "Embedded - Microcontrollers"?

"Embedded - Microcontrollers" refer to small, integrated circuits designed to perform specific tasks within larger systems. These microcontrollers are essentially compact computers on a single chip, containing a processor core, memory, and programmable input/output peripherals. They are called "embedded" because they are embedded within electronic devices to control various functions, rather than serving as standalone computers. Microcontrollers are crucial in modern electronics, providing the intelligence and control needed for a wide range of applications.

Applications of "<u>Embedded -</u> <u>Microcontrollers</u>"

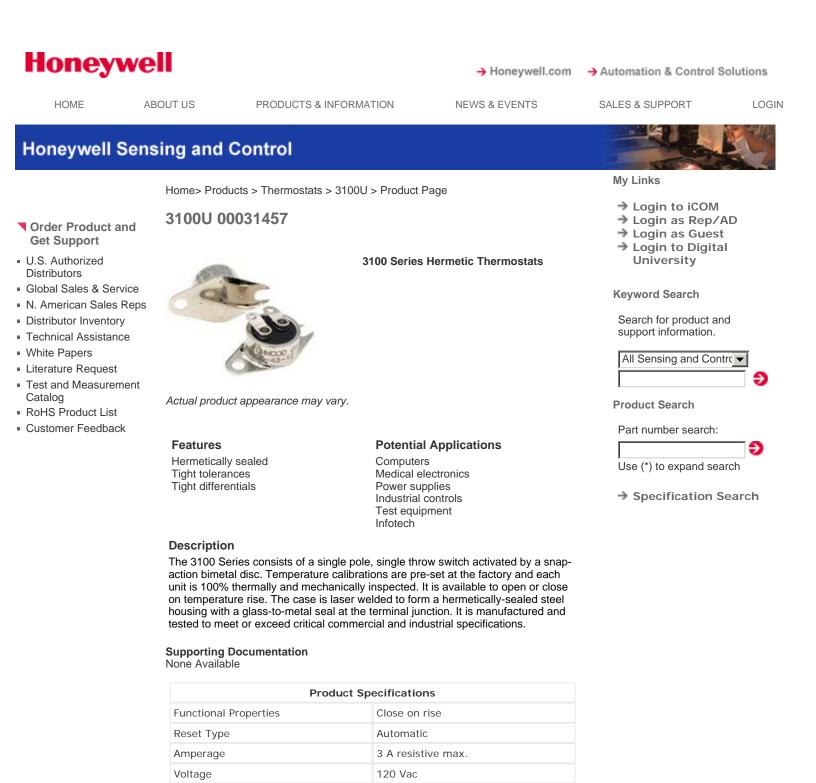
Details

E·XFl

Becano	
Product Status	Active
Core Processor	dsPIC
Core Size	16-Bit
Speed	40 MIPs
Connectivity	I ² C, IrDA, LINbus, SPI, UART/USART
Peripherals	Brown-out Detect/Reset, QEI, POR, PWM, WDT
Number of I/O	74
Program Memory Size	32KB (32K x 8)
Program Memory Type	FLASH
EEPROM Size	- · · · · · · · · · · · · · · · · · · ·
RAM Size	4K x 8
Voltage - Supply (Vcc/Vdd)	3V ~ 3.6V
Data Converters	A/D 18x10b; D/A 1x10b
Oscillator Type	Internal
Operating Temperature	-40°C ~ 85°C (TA)
Mounting Type	Surface Mount
Package / Case	80-TQFP
Supplier Device Package	80-TQFP (12x12)
Purchase URL	https://www.e-xfl.com/product-detail/microchip-technology/dspic33fj32gs608t-i-pt

Email: info@E-XFL.COM

Address: Room A, 16/F, Full Win Commercial Centre, 573 Nathan Road, Mongkok, Hong Kong



-29 °C to 260 °C [-20 °F to 500 °F]

-62 °C to 288 °C [-80 °F to 550 °F]

MIL-STD-202, Method 301; 1250 Vac

MIL-STD-202, Method 302; 50 MOhm

26.7 °C [80 °F]

37.8 °C [100 °F]

60 Hz - Terminal to Case

2.8 °C [5 °F]

2.8 °C [5 °F]

Operating Temperature

Open Temperature

Close Temperature

Open Tolerance

Close Tolerance

Dielectric Strength

Insulation Resistance

Environmental Exposure Range

Contact Resistance	MIL-STD-202, Method 307; 0.050 Ohm max.
Hermetic Seal	MIL-STD-202, Method 112; Cond. 1x10-5
Moisture Resistance	MIL-STD-202, Method 106
Housing Material	Steel housing hermetically sealed with glass-to-metal seal at terminal junction
Contact Material	Silver
Agency Approvals and Standards	UL
Mounting	B209 fixed bracket
Series Name	3100U

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