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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 - Microcontrollers</u>"

Details	
Product Status	Active
Core Processor	PIC
Core Size	16-Bit
Speed	60 MIPs
Connectivity	I ² C, IrDA, LINbus, SPI, UART/USART
Peripherals	Brown-out Detect/Reset, DMA, POR, PWM, WDT
Number of I/O	53
Program Memory Size	512KB (170K x 24)
Program Memory Type	FLASH
EEPROM Size	-
RAM Size	24K x 16
Voltage - Supply (Vcc/Vdd)	3V ~ 3.6V
Data Converters	A/D 16x10b/12b
Oscillator Type	Internal
Operating Temperature	-40°C ~ 150°C (TA)
Mounting Type	Surface Mount
Package / Case	64-VFQFN Exposed Pad
Supplier Device Package	64-VQFN (9x9)
Purchase URL	https://www.e-xfl.com/product-detail/microchip-technology/pic24ep512gp206-h-mr



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3100U 00031457

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Actual product appearance may vary.

Features

Hermetically sealed Tight tolerances Tight differentials

Potential Applications

Computers Medical electronics Power supplies Industrial controls Test equipment Infotech

Description

The 3100 Series consists of a single pole, single throw switch activated by a snapaction bimetal disc. Temperature calibrations are pre-set at the factory and each unit is 100% thermally and mechanically inspected. It is available to open or close on temperature rise. The case is laser welded to form a hermetically-sealed steel housing with a glass-to-metal seal at the terminal junction. It is manufactured and tested to meet or exceed critical commercial and industrial specifications.

Supporting Documentation

None Available

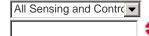
Product Specifications		
Close on rise		
Automatic		
3 A resistive max.		
120 Vac		
-29 °C to 260 °C [-20 °F to 500 °F]		
-62 °C to 288 °C [-80 °F to 550 °F]		
26.7 °C [80 °F]		
37.8 °C [100 °F]		
2.8 °C [5 °F]		
2.8 °C [5 °F]		
MIL-STD-202, Method 301; 1250 Vac 60 Hz - Terminal to Case		
MIL-STD-202, Method 302; 50 MOhm		

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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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