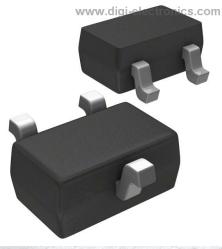


MIC803-40D2VC3-TR Datasheet

Ma



DiGi Electronics Part Number	MIC803-40D2VC3-TR-DG
Manufacturer	Microchip Technology
Aanufacturer Product Number	MIC803-40D2VC3-TR
Description	IC SUPERVISOR 1 CHANNEL SC70-3
Detailed Description	Supervisor Open Drain or Open Collector 1 l SC-70-3

Channe

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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
MIC803-40D2VC3-TR	Microchip Technology
Series:	Product Status:
	Active
DiGi-Electronics Programmable:	Туре:
Not Verified	Simple Reset/Power-On Reset
Number of Voltages Monitored:	Voltage - Threshold:
1	4V
Output:	Reset:
Open Drain or Open Collector	Active Low
Reset Timeout:	Operating Temperature:
20ms Minimum	-40°C ~ 125°C (TJ)
Mounting Type:	Package / Case:
Surface Mount	SC-70, SOT-323
Supplier Device Package:	Base Product Number:
SC-70-3	MIC803

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8542.39.0001	



3-Pin Microprocessor Supervisor Circuit with Open-Drain Reset Output

Features

- 4.5 µA Supply Current (Typical) at 3.6V
- Open-Drain /RESET Output
- + /RESET Remains Valid with V_{CC} as Low as 1V
- 20 ms, 140 ms, or 1120 ms Minimum Reset Timeout Options
- 2.63V to 4.63V Preset Voltage Threshold Options
- 2.5% Voltage Threshold Accuracy over Temperature
- 3-Pin SC-70 Package (2.0 mm x 2.1 mm)
- 3-Pin SOT-23 Package (2.3 mm x 2.9 mm)
- –40°C to +125°C Junction Temperature Range

Applications

- Critical Microcomputer Power Monitoring
- Portable Equipment
- · Solid State Drives
- · Printers/Computers
- Embedded Controllers

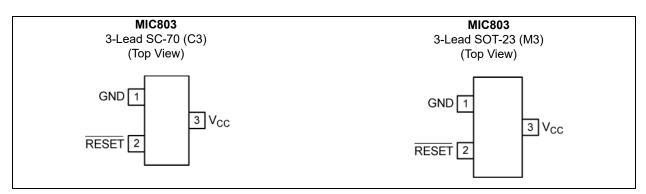
General Description

The MIC803 is a single-voltage supervisor with open-drain reset output that provides accurate power supply monitoring and reset generation in microprocessor-based systems. The function of the device is to assert a reset signal if the power supply voltage drops below the reset threshold voltage, and retain this reset for the reset timeout period once the power supply increases above the reset threshold voltage.

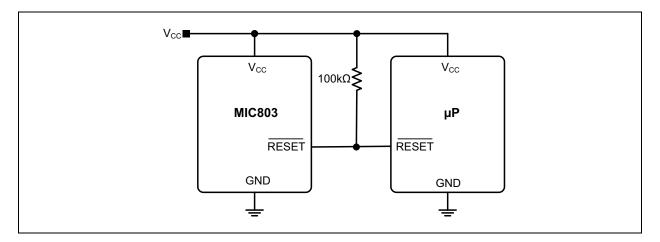
The MIC803 consumes only 4.5 μA of supply current and offers three reset delay periods of 20 ms, 140 ms, and 1120 ms (minimum).

It features factory-programmed reset threshold levels from 2.63V to 4.63V to accommodate 3.0V, 3.3V, and 5.0V power supplies. It is available in the compact 3-pin SC-70 and SOT-23 packages.

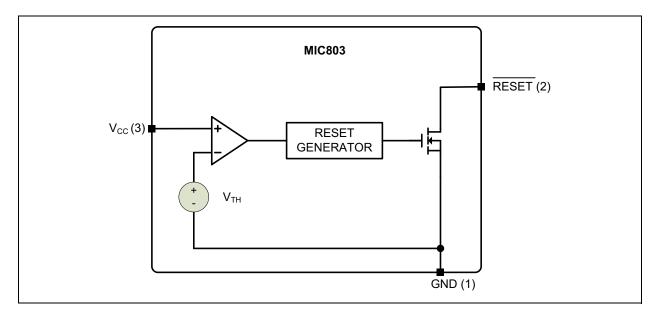
Package Types



Typical Application Circuit



Functional Block Diagram



1.0 ELECTRICAL CHARACTERISTICS

Absolute Maximum Ratings †

Supply Voltage (V _{CC})	
Reset Output (/RESET)	
Input Current (V _{CC})	
Output Current (/RESET)	
Rate of Rise (V _{CC})	
ESD Rating (Note 1)	

Operating Ratings ‡

Supply Voltage (V _{CC})+1.0	V to +5.5V
	V to +5.5V

† Notice: Stresses above those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. This is a stress rating only and functional operation of the device at those or any other conditions above those indicated in the operational sections of this specification is not intended. Exposure to maximum rating conditions for extended periods may affect device reliability.

‡ Notice: The device is not guaranteed to function outside its operating rating.

Note 1: Devices are ESD sensitive. Handling precautions are recommended. Human body model, 1.5 k Ω in series with 100 pF.

ELECTRICAL CHARACTERISTICS

Electrical Characteristics: For typical values, $V_{CC} = 5.0V$ for MIC803-46/44/41/40, $V_{CC} = 3.3V$ for MIC803-31/30/29, $V_{CC} = 3.0V$ for MIC803-26; $T_J = +25^{\circ}C$, **Bold** values valid for $-40^{\circ}C \le T_J \le +125^{\circ}C$; unless noted. (Note 1)

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions				
Power Supply Input										
Operating Valtage Pange	V	1.0	_	5.5	v	$T_{J} = -40^{\circ}C \text{ to } +85^{\circ}C$				
Operating Voltage Range	V _{CC}	1.2	_	5.5	v	$T_{J} = -40^{\circ}C$ to +125°C				
		_	5.5	15		$T_J = -40^{\circ}C$ to +85°C, $V_{CC} = 5.5V$, No Load				
Summber Comment	Icc		4.5	10		$T_J = -40^{\circ}C$ to +85°C, $V_{CC} = 3.6V$, No Load				
Supply Current		_	_	18	μA	T_J = +85°C to +125°C, V _{CC} = 5.5V, No Load				
		_	_	13		T _J = +85°C to +125°C, V _{CC} = 3.6V, No Load				
Voltage Threshold										
		4.50	4.63	4.75		MIC803-46, T _J = -40°C to +85°C				
		4.44	—	4.82		MIC803-46, T _J = -40°C to +125°C				
Depot Throubold	V	4.25	4.38	4.50	v	MIC803-44, T _J = -40°C to +85°C				
Reset Threshold	V _{TH}	4.20	_	4.56	v	MIC803-44, T _J = -40°C to +125°C				
		4.00	4.10	4.20		MIC803-41, T _J = -40°C to +85°C				
		3.97 — 4.24		MIC803-41, T _J = –40°C to +125°C						

Note 1: Specification for packaged product only.

ELECTRICAL CHARACTERISTICS (CONTINUED)

Electrical Characteristics: For typical values, $V_{CC} = 5.0V$ for MIC803-46/44/41/40, $V_{CC} = 3.3V$ for MIC803-31/30/29, $V_{CC} = 3.0V$ for MIC803-26; $T_J = +25^{\circ}C$, **Bold** values valid for $-40^{\circ}C \le T_J \le +125^{\circ}C$; unless noted. (Note 1)

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
		3.89	4.00	4.10		MIC803-40, T _J = -40°C to +85°C
		3.80		4.20		MIC803-40, T _J = -40°C to +125°C
		3.00	3.08	3.15		MIC803-31, T _J = –40°C to +85°C
		2.95		3.21		MIC803-31, T _J = –40°C to +125°C
Deact Threehold	N	2.93	3.00	3.08	V	MIC803-30, T _J = –40°C to +85°C
Reset Threshold	V _{TH}	2.90	_	3.11	v	MIC803-30, T _J = -40°C to +125°C
		2.82	2.93	3.00		MIC803-29, T _J = -40°C to +85°C
		2.81		3.05		MIC803-29, T _J = -40°C to +125°C
		2.55	2.63	2.70		MIC803-26, T _J = -40°C to +85°C
		2.50		2.76		MIC803-26, T _J = -40°C to +125°C
Reset Time						
V _{CC} to /RESET Delay	t _D		15		μs	$V_{CC} = V_{TH}$ to ($V_{TH} - 100$ mV)
		20	35	44		D2, T _J = –40°C to +85°C
		16		48		D2, T _J = –40°C to +125°C
Reset Timeout Period	4	140	230	360		D3, T _J = –40°C to +85°C
Reset Timeout Period	t _{RESET}	112		420	ms	D3, T _J = –40°C to +125°C
		1120	1800	2400		D4, T _J = –40°C to +85°C
		900	_	3200		D4, T _J = –40°C to +125°C
Reset Output						
		_	_	0.4		V _{CC} ≥ 4.0V, I _{SINK} = 3.2 mA
/RESET Output Voltage	V _{OL}	_	_	0.3	V	V _{CC} ≥ 2.5V, I _{SINK} = 1.2 mA
		_	_	0.3		V _{CC} ≥ 1.0V, I _{SINK} = 50 µA
/RESET Output Leakage	_	_		1	μA	V _{CC} > V _{TH} , /RESET deasserted

Note 1: Specification for packaged product only.

TEMPERATURE SPECIFICATIONS

Parameters	Sym.	Min.	Тур.	Max.	Units	Conditions			
Temperature Ranges									
Maximum Junction Temperature	T _{J(MAX)}	_	—	+150	°C	—			
Storage Temperature Range	Τ _S	-65	—	+150	°C	—			
Lead Temperature	—	_	—	+260	°C	Soldering, 10 sec.			
Junction Temperature Range	TJ	-40	—	+125	°C	Note 1			
Package Thermal Resistance									
Thermal Resistance, SC-70, 3-Ld	θ _{JA}	_	260	—	°C/W	—			
Thermal Resistance, SOT-23, 3-Ld	θ _{JA}	_	203	—	°C/W	—			

Note 1: The maximum allowable power dissipation is a function of ambient temperature, the maximum allowable junction temperature and the thermal resistance from junction to air (i.e., T_A, T_J, θ_{JA}). Exceeding the maximum allowable power dissipation will cause the device operating junction temperature to exceed the maximum +125°C rating. Sustained junction temperatures above +125°C can impact the device reliability.

2.0 TYPICAL PERFORMANCE CURVES

Note: The graphs and tables provided following this note are a statistical summary based on a limited number of samples and are provided for informational purposes only. The performance characteristics listed herein are not tested or guaranteed. In some graphs or tables, the data presented may be outside the specified operating range (e.g., outside specified power supply range) and therefore outside the warranted range.

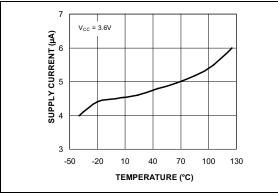


FIGURE 2-1: V_{CC} Operating Supply Current vs. Temperature.

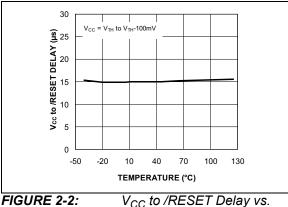


FIGURE 2-2: Temperature.

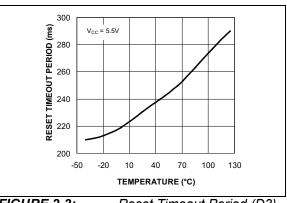


FIGURE 2-3: Reset Timeout Period (D3) vs. Temperature.

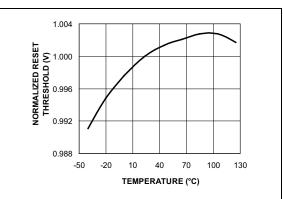


FIGURE 2-4: Normalized Reset Threshold vs. Temperature.

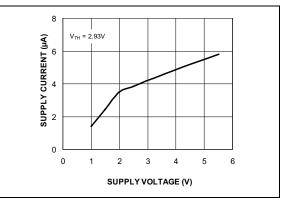


FIGURE 2-5: V_{CC} Operating Supply Current vs. Supply Voltage.

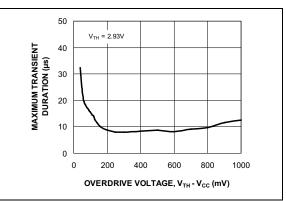
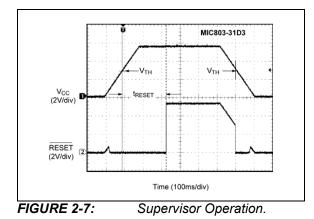
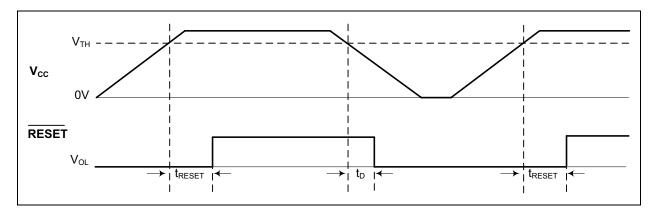


FIGURE 2-6: Maximum Transient Duration vs. Overdrive.



Timing Diagram



3.0 PIN DESCRIPTIONS

The descriptions of the pins are listed in Table 3-1.

TABLE 3-1:PIN FUNCTION TABLE

Pin Number	Pin Name	Description					
1	GND	Ground.					
2		/RESET goes low if V _{CC} falls below the reset threshold (V _{TH}) and remains asserted for one timeout period after V _{CC} exceeds V _{TH} .					
3	V _{CC}	Power supply input and monitored voltage.					

4.0 APPLICATION INFORMATION

4.1 Microprocessor Reset

The /RESET pin is asserted whenever V_{CC} falls below the reset threshold voltage, V_{TH}. The /RESET pin remains asserted for the duration of the reset timeout period (t_{RESET}) after V_{CC} has risen above the reset threshold voltage. The reset function ensures the microprocessor is properly reset and powers up in a known condition after a power failure. /RESET will remain valid with V_{CC} as low as 1.0V.

The /RESET output is a simple open-drain N-channel MOSFET structure. A pull-up resistor must be used to pull this output up to some voltage. For most applications, this voltage will be the same power supply that supplies V_{CC} to the MIC803. As shown in Figure 4-1, it is possible, however, to tie this resistor to some other voltage. This will allow the MIC803 to monitor one voltage while level-shifting the /RESET output to some other voltage. The pull-up voltage must be limited to 5.5V. The resistor must be small enough to supply current to the inputs and leakage paths that are driven by the /RESET output.

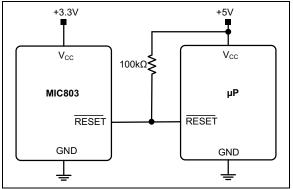
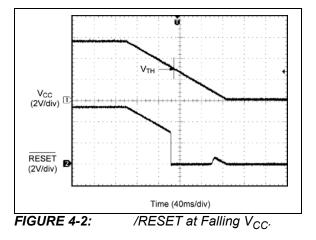


FIGURE 4-1: MIC803 Used in a Multiple Supply System.

4.2 /RESET Valid at Low Voltage

As V_{CC} drops to 0V, the MIC803 will no longer be able to pull the /RESET output low, and the pull-up resistor will pull the output high. The value of the pull-up resistor and the voltage it is connected to will affect the point at which this happens.



4.3 Wire ORing the /RESET Output

Because the /RESET output is open-drain, several reset sources can be wire-ORed, in parallel, to allow resets from multiple sources.

4.4 V_{CC} Transients

The MIC803 is relatively immune to negative-going VCC glitches below the reset threshold (see Figure 2-6). As shown in Figure 4-3, the overdrive voltage is the difference between the threshold voltage and the minimum point of the V_{CC} glitch. Typically, an overdrive of 100 mV with duration of 15 μ s or less will not cause a reset. If additional transient immunity is needed, a 0.1 μ F bypass capacitor can be placed as close as possible to the MIC803 on the V_{CC} pin.

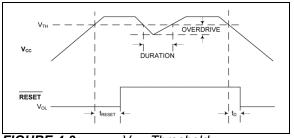
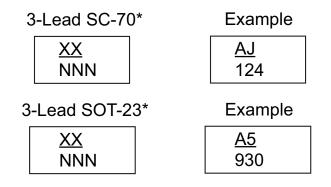


FIGURE 4-3: V_{CC} Threshold.

5.0 PACKAGING INFORMATION

5.1 Package Marking Information



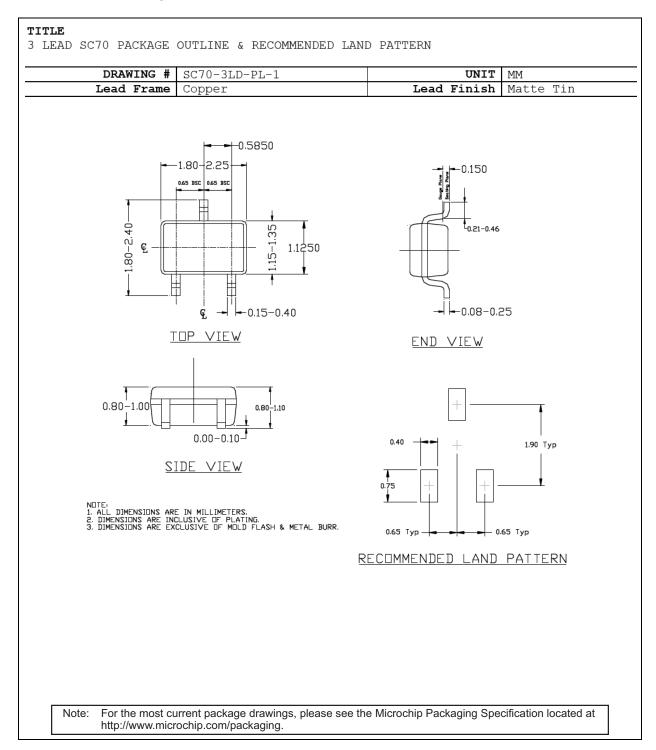
Legend	: XXX Y YY WW NNN (@3) * •, ▲, ♥ mark).	Product code or customer-specific information Year code (last digit of calendar year) Year code (last 2 digits of calendar year) Week code (week of January 1 is week '01') Alphanumeric traceability code Pb-free JEDEC [®] designator for Matte Tin (Sn) This package is Pb-free. The Pb-free JEDEC designator (€3) can be found on the outer packaging for this package.
	be carried characters the corpor	nt the full Microchip part number cannot be marked on one line, it will d over to the next line, thus limiting the number of available of or customer-specific information. Package may or may not include ate logo. (_) and/or Overbar (⁻) symbol may not be to scale.

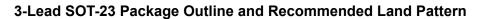
For a full list of MIC803 Marking Codes, please see the next page. For a full breakdown of part numbers and their options, see the Product Identification System.

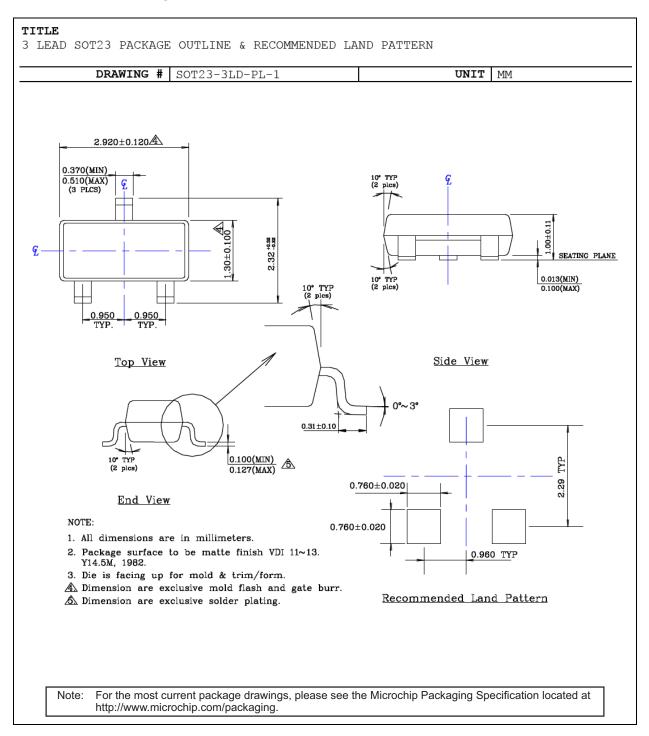
SC-70 Part Number	Marking Code	Nominal V _{TH}	Min. t _{RESET}	SOT-23 Part Number	Marking Code	Nominal V _{TH}	Min. t _{RESET}
MIC803-46D2VC3	AS	4.63V	20 ms	MIC803-46D2VM3	AS	4.63V	20 ms
MIC803-44D2VC3	AP	4.38V	20 ms	MIC803-44D2VM3	AP	4.38V	20 ms
MIC803-41D2VC3	<u>AK</u>	4.10V	20 ms	MIC803-41D2VM3	<u>AK</u>	4.10V	20 ms
MIC803-40D2VC3	<u>A2</u>	4.00V	20 ms	MIC803-40D2VM3	<u>A2</u>	4.00V	20 ms
MIC803-31D2VC3	AG	3.08V	20 ms	MIC803-31D2VM3	AG	3.08V	20 ms
MIC803-30D2VC3	AV	3.00V	20 ms	MIC803-30D2VM3	AV	3.00V	20 ms
MIC803-29D2VC3	<u>AD</u>	2.93V	20 ms	MIC803-29D2VM3	AD	2.93V	20 ms
MIC803-26D2VC3	AA	2.63V	20 ms	MIC803-26D2VM3	AA	2.63V	20 ms
MIC803-46D3VC3	<u>AT</u>	4.63V	140 ms	MIC803-46D3VM3	<u>AT</u>	4.63V	140 ms
MIC803-44D3VC3	AQ	4.38V	140 ms	MIC803-44D3VM3	AQ	4.38V	140 ms
MIC803-41D3VC3	AM	4.10V	140 ms	140 ms MIC803-41D3VM3		4.10V	140 ms
MIC803-40D3VC3	<u>A5</u>	4.00V	140 ms	MIC803-40D3VM3	<u>A5</u>	4.00V	140 ms
MIC803-31D3VC3	<u>A4</u>	3.08V	140 ms	MIC803-31D3VM3	<u>A4</u>	3.08V	140 ms
MIC803-30D3VC3	<u>AX</u>	3.00V	140 ms	MIC803-30D3VM3	AX	3.00V	140 ms
MIC803-29D3VC3	<u>AE</u>	2.93V	140 ms	MIC803-29D3VM3	<u>AE</u>	2.93V	140 ms
MIC803-26D3VC3	AB	2.63V	140 ms	MIC803-26D3VM3	AB	2.63V	140 ms
MIC803-46D4VC3	<u>AU</u>	4.63V	1120 ms	MIC803-46D4VM3	AU	4.63V	1120 ms
MIC803-44D4VC3	AR	4.38V	1120 ms	MIC803-44D4VM3	<u>AR</u>	4.38V	1120 ms
MIC803-41D4VC3	AN	4.10V	1120 ms	MIC803-41D4VM3	AN	4.10V	1120 ms
MIC803-40D4VC3	<u>A6</u>	4.00V	1120 ms	MIC803-40D4VM3	<u>A6</u>	4.00V	1120 ms
MIC803-31D4VC3	AJ	3.08V	1120 ms	MIC803-31D4VM3	AJ	3.08V	1120 ms
MIC803-30D4VC3	<u>AZ</u>	3.00V	1120 ms	MIC803-30D4VM3	<u>AZ</u>	3.00V	1120 ms
MIC803-29D4VC3	<u>A3</u>	2.93V	1120 ms	MIC803-29D4VM3	<u>A3</u>	2.93V	1120 ms
MIC803-26D4VC3	<u>AC</u>	2.63V	1120 ms	MIC803-26D4VM3	AC	2.63V	1120 ms

TABLE 5-1: MARKING CODES

3-Lead SC-70 Package Outline and Recommended Land Pattern







NOTES:

APPENDIX A: REVISION HISTORY

Revision A (December 2020)

- Converted Micrel document MIC803 to Microchip data sheet template DS20006456A.
- Minor grammatical text changes throughout.

NOTES:

PRODUCT IDENTIFICATION SYSTEM

To order or obtain information, e.g., on pricing or delivery, contact your local Microchip representative or sales office.

						amples:	
<u>Device</u> Part No.	- <u>XX</u> Nominal V _{TH}	<u>XX</u> Min. Rese Time	Range	XX Package	- <u>XX</u> Media Type	MIC803-26D2VC3-T	R: MIC803, 2.63V Nominal V _{TH} , 20 ms Min. Reset Time, -40°C to +125°C Temp. Range, 3-Lead SC-70, 3,000/Reel
Device:	29 30	= 2.63V = 2.93V = 3.00V	3-Pin Microproc with Open-Drair			MIC803-31D3VM3-T	
Nominal V _{TH} :	40 41 44	= 3.08V = 4.00V = 4.10V = 4.38V = 4.63V				MIC803-44D4VC3-T	R: MIC803, 4.38V Nominal V _{TH} , 1120 ms Min. Reset Time, -40°C to +125°C Temp. Range, 3-Lead SC-70, 3,000/Reel
Minimum Res Time:	et D2 D3 D4	= 140 m	-			MIC803-46D2VM3-T	 R: MIC803, 4.63V Nominal V_{TH}, 20 ms Min. Reset Time, -40°C to +125°C Temp. Range, 3-Lead SOT-23, 3,000/Reel
Temperature Range:	V		to +125°C			MIC803-29D3VC3-T	,
Package:	C3 M3		I SC-70 I SOT-23				Range, 3-Lead SC-70, 3,000/Reel
Media Type:	TR	= 3,000//	Reel			catalog part used for orde the device p	eel identifier only appears in the number description. This identifier is ering purposes and is not printed on ackage. Check with your Microchip for package availability with the eel option.

NOTES:

Note the following details of the code protection feature on Microchip devices:

- Microchip products meet the specifications contained in their particular Microchip Data Sheet.
- Microchip believes that its family of products is secure when used in the intended manner and under normal conditions.
- There are dishonest and possibly illegal methods being used in attempts to breach the code protection features of the Microchip devices. We believe that these methods require using the Microchip products in a manner outside the operating specifications contained in Microchip's Data Sheets. Attempts to breach these code protection features, most likely, cannot be accomplished without violating Microchip's intellectual property rights.
- Microchip is willing to work with any customer who is concerned about the integrity of its code.
- Neither Microchip nor any other semiconductor manufacturer can guarantee the security of its code. Code protection does not
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 other copyrighted work, you may have a right to sue for relief under that Act.

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