



Products for tomorrow...

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Optocoupler: 567-70-1-i

Part Number: 5217670010

<p><b>Dimensions (mm)</b></p> <p>Pins: <math>\varnothing</math> 0,65 mm / L 3,2 +0,8 -0,3 mm</p>	<p><b>Test circuit</b></p>	<p><b>Layout / Pitch</b> 2,54 mm / Top View</p>	<p><b>Marking</b></p> <p>MEDER-Label                  Type                  Prod.-Code-                  EN60062                  /Factory Code                  PTB 01 ATEX                  2042 U</p> <p>0344   II (1) G                  [EEx ia] IIC</p>
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Electrical Characteristics	Conditions (at T <sub>A</sub> = 25°C)	Symbol	Min.	Typ.	Max.	Units
<b>Isolation Voltage Input / Output</b>		V <sub>IO</sub>	4.000			VDC
Insulation Resistance Input / Output	RH 45%	R <sub>IO</sub>	10 <sup>10</sup>			Ω
Coupling Capacitance		C <sub>C</sub>		0,5		pF
Forward Voltage	I <sub>F</sub> 10 mA	V <sub>F</sub>		2	2,6	V
Reverse Voltage	I <sub>R</sub> 100 μA	V <sub>BR</sub>	3			V
Input Threshold Current		I <sub>FT</sub>		2		mA
Output Voltage	I <sub>F</sub> = 5 mA	V <sub>OL</sub>			0,6	V
Cut-Off Frequency	U <sub>S</sub> =5V, I <sub>F</sub> =4 mA, R <sub>L</sub> =1 kΩ	F <sub>CO</sub>		500		kHz

Coupled Device						
Creeping Distance			14			mm
Air Path Input / Output			14			mm
Insulation Distance, Emitter to Detector			6			mm

Switching Time						
Turn-on Time	U <sub>S</sub> =5V, I <sub>F</sub> =4 mA, R <sub>L</sub> =1 kΩ	T <sub>on</sub>		0,5		μs
Turn-off Time	U <sub>S</sub> =5V, I <sub>F</sub> =4 mA, R <sub>L</sub> =1 kΩ	T <sub>off</sub>		0,5		μs

Maximum Ratings Emitter						
Reverse Voltage		V <sub>R</sub>			3	V
DC Forward Current		I <sub>F</sub>			45	mA
Surge Forward Current	t ≤ 10 μs, Absolute	I <sub>FS</sub>			1	A
Power Dissipation		P <sub>TOT</sub>			120	mW
Junction Temperature		T <sub>J</sub>			100	°C

Maximum Ratings Detector						
Supply Voltage		V <sub>S</sub>	0,5		7	V
Supply Current	V <sub>S</sub> =5V	I <sub>S</sub>			18	mA
Collector Voltage		V <sub>C</sub>	0,5		7	V
Output Current		I <sub>O</sub>			50	mA
Power Dissipation		P <sub>TOT</sub>			85	mW
Junction Temperature		T <sub>J</sub>			100	°C

Environmental Data						
Ambient Temperatur Range		T <sub>A</sub>	- 25		+ 85	°C
Storage Temperatur Range		T <sub>stg</sub>	- 40		+ 100	°C
Soldering Temperature	5 sec. at				260	°C
Cleaning					fully sealed	
Material of Case					Plastics	
Sealing Compound					Polyurethan	
Material of Pins					Cu-alloy tinned	
Remarks	Optocoupler with Schmitt-Trigger Logic Output. Galvanically separated circuits, suitable for intrinsic safety circuits. PTB 01 ATEX 2042 U					

Customer / Customer part number	Standard Part
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