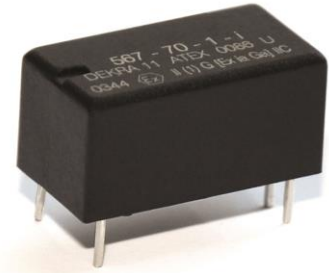


567 Series Optocouplers



- Features: ATEX Optocoupler with Schmitt Trigger for Intrinsically Safe Circuits
- Applications: Electronics for Mining, Test & Measurement, Automation Technology
- Markets: Oil & Gas Production, Refinery, Mining, Medical and Test and Measurement

Part Description: **567-70-1-i**

Electrical Optocoupler Characteristics (at 20°C)		Unit
Input Threshold Current IFT (min. / max.) RL=1 kOhm, Ucc=5V, f=1 kHz	0.6 / 3.5	mA
Turn On Time Ton (typ.) If=4 mA, Ucc=5V, RL=1kOhm	0.5	µsec
Turn-Off Time Toff (typ.) If=4 mA, Ucc=5V, RL=1kOhm	0.5	µsec
Cut-Off Frequency Fco (typ.) If=4 mA, Ucc=5V, RL=1kOhm	500	kHz
Insulation Distance Emitter-Detector (min.)	6.0	mm
Insulation Resistance Input / Output (min.) Rh<45%, 100V Test Voltage	10 ¹³	Ohm
Isolation Voltage Input / Output (min.)	4,000	VDC
Coupling Capacitance (typ.)	0.5	pF
Creeping Distance (min.)	14.0	mm
Air Clearance Input / Output (min.)	14.0	mm

Maximum Ratings Emitter (at 20°C)		Unit
DC Forward Current If (max.)	45	mA
Junction Temperature Tj (max.)	100	°C
Reverse Voltage Ur (max.) IR = 100 µA	3	VDC
Surge Forward Current Ifs (max.) t <= 10 ms	1	A

Maximum Ratings Detector (at 20°C)		Unit
Output Voltage Uol (max.) If = 5 mA	0.6	VDC
Output Current Io (max.)	50	mA
Supply Voltage Ucc (min. / max.)	4.0 / 5.5	VDC
Supply Current Is (typ.)	4	mA
Junction Temperature Tj (max.)	100	°C
Collector Voltage (max.)	15	VDC
Power Dissipation (max.)	85	mW

Housing and Material Specifications	
Housing Material	P6 G
Case Color	Black
Sealing Compound	Wevopur 552 FL
Connection Pins	Cu-Alloy, Tinned
Washability	Fully Sealed

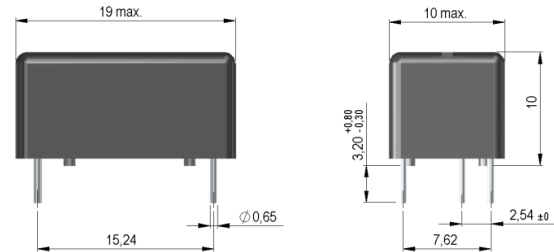
Environmental Data		Unit
Shock Resistance (max.) 1/2 sine wave duration 11ms	50	g
Vibration Resistance (max.)	20	g
Operating Temperature	-20 to 85	°C
Storage Temperature	-40 to 100	°C
Soldering Temperature (max.) 5 sec. max.	260	°C

Handling Instructions

➤ It is advised that normal static precautions are to be taken in handling and assembly of this component to prevent damage and/or degradation which may be induced by ESD.

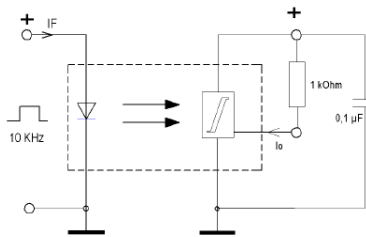


567 Optocoupler

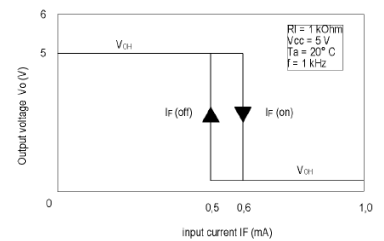


Test Circuit and Layout

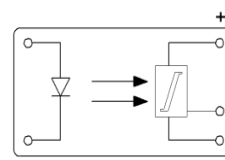
Test Circuit



Transfer Characteristics (IFT)



Layout



Please note: All technical specifications on this series datasheet refer to the standard product range. Modifications in the sense of technical progress are reserved. For general information only. For more specific information, please consult the product datasheet, available upon request.

This series datasheet could contain technical inaccuracies or typographical errors. Changes are periodically made to the information herein. These changes will be incorporated in future revisions.

For deviating values, latest specifications and product details, please contact your nearest sales office.