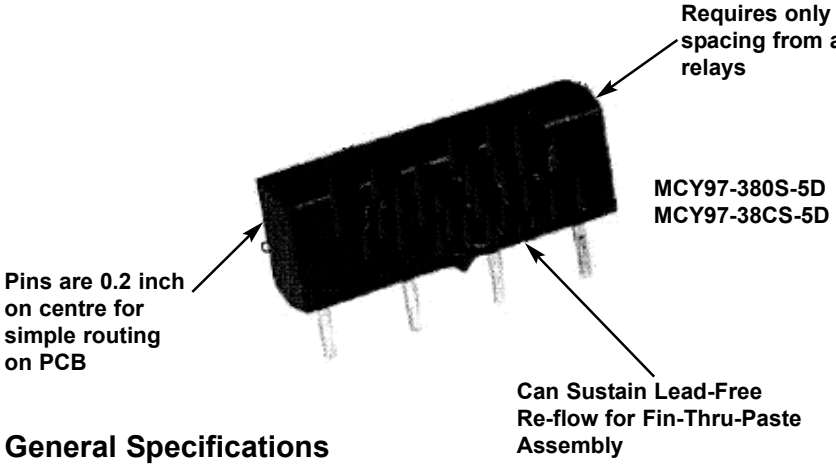
MCY97 Series Reed Relays

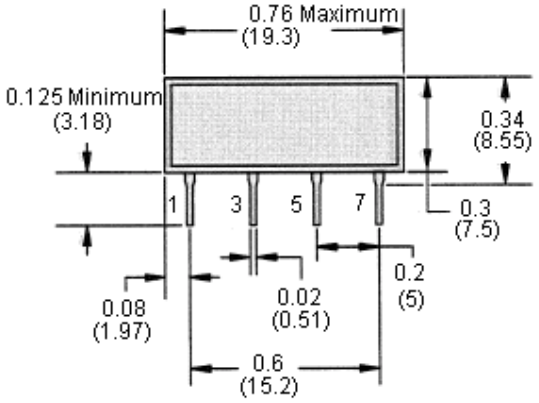


RoHS Compliant

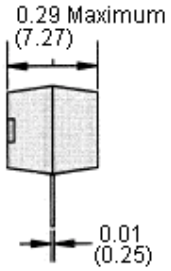
General Specifications

Contact Characteristics		Units	MCY97-380S-5D	MCY97-38CS-5D
Contact Materials	-	-	Rhodium	
Current rating	-	A	0.5	
Switching Voltage	-	V	120	
		V	200	
Minimum Switching Requirement	Minimum	mA	10	
Coil Characteristics				
Operating Range	% of Nominal	-	80% to 110%	
Average Consumption	-	W	0.29	
Drop-out Voltage Threshold	-	-	10%	
Performance Characteristics				
Electrical Life	Operations at Rated Current (Resistive)	-	50,000,000	
Mechanical Life	Unpowered	-	100,000,000	
Operating Time (Response Time)	-	ms	0.45	
Rated insulation Voltage	Between Coil and Contact	V	500	
Dielectric strength	Between Poles	V	500	
rms Voltage	Between Contacts	V	150	
Environment				
Ambient Air Temperature	Storage	°C	-40 to +85	
Around the Device	Operation	°C	-40 to +55	
Vibration Resistance	Operational	g-n	20, 10-200 Hz	
Shock Resistance	-	g-n	50	
Weight	-	grams	1	

MCY97-380S-5D, MCY97-38CS-5D



Drawing enlarged to 200% of actual size.



When spacing MCY97 relays, the relays require 1/2 inch spacing from the side of the adjacent relay

Dimensions : Inches (Millimetres)

MCY97-360D-5D
MCY97-380D-12D
MCY97-38CD-5D

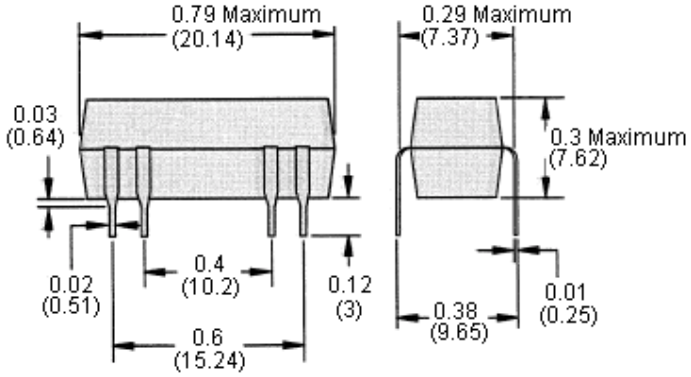
General Specifications

Contact Characteristics		**Units**	**MCY97-360D-5D**	**MCY97-380D-12D**	**MCY97-38CD-5D**
Contact Materials	-	-	Rhodium	Rhodium	
Current rating	-	A	0.5	0.5	
Switching Voltage	-	V	120	60	
		V	100	100	
Minimum Switching Requirement	Minimum	mA	10	10	
Coil Characteristics					
Operating Range	% of Nominal	-	80% to 110%	80% to 110%	
Average Consumption	-	W	0.29	0.29	
Drop-out Voltage Threshold	-	-	10%	10%	
Performance Characteristics					
Electrical Life	Operations at Rated Current (Resistive)	-	50,000,000	50,000,000	
Mechanical Life	Unpowered	-	100,000,000	100,000,000	
Operating Time (Response Time)	-	ms	1	1	

General Specifications

Performance Characteristics		Units	MCY97-360D-5D	MCY97-380D-12D	MCY97-38CD-5D
Rated insulation Voltage	Between Coil and Contact	V	1,000	1,000	
Dielectric strength	Between Poles	V	1,000	1,000	
rms Voltage	Between Contacts	V	200	200	
Environment					
Ambient Air Temperature	Storage	°C	-40 to +85	-40 to +85	
Around the Device	Operation		-40 to +55	-40 to +55	
Vibration Resistance	Operational	g-n	20, 10-200 Hz	20, 10-200 Hz	
Shock Resistance	-	g-n	50	50	
Weight	-	grams	1	1	

MCY97-360D-5D, MCY97-380D-12D, MCY97-38CD-5D



Dimensions : Inches (Millimetres)

Drawing enlarged to 200% of actual size.

Specification Table

Nominal Input Voltage	Nominal Coil Resistance (Ω)	Contact Configuration	Figure	Part Number
5 V dc	500 Ω	SPST-NO	A	MCY97-380S-5D
5 V dc	500 Ω	SPST-NO w / Clamping Diode	B	MCY97-38CS-5D
5 V dc	500 Ω	DPST-NO	E	MCY97-360D-5D
12 V dc	1,000 Ω	SPST-NO	C	MCY97-380D-12D
5 V dc	500 Ω	SPST-NO w / Clamping Diode	D	MCY97-38CD-5D

Wiring Diagrams Top View

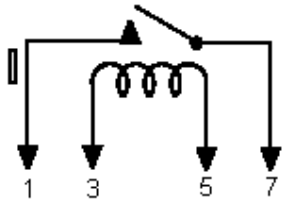


Figure A
SPST-NO without diode

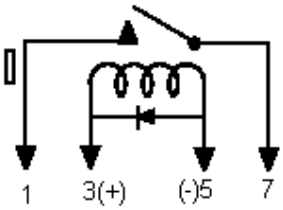


Figure B
SPDT-NO with diode

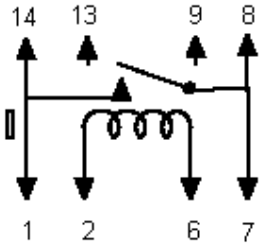


Figure C
SPST-NO without diode

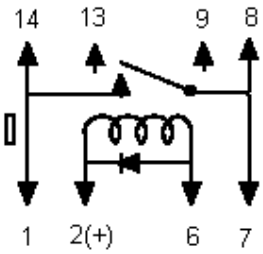


Figure D
SPDT-NO with diode

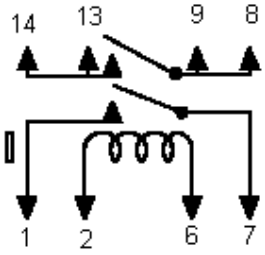
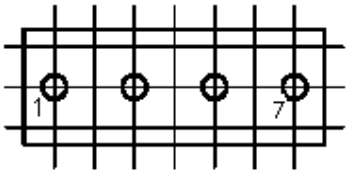


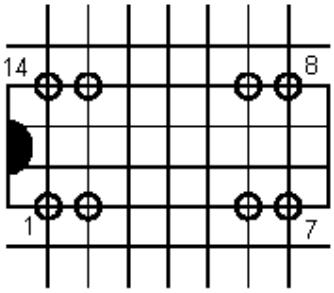
Figure E
DPST-NO without diode

MCY97-380S-5D, MCY97-38CS-5D
Circuit board pin spacing
Viewed from component side
(Top View)



0.1 in grid
(2.54 mm)

MCY97-360D-5D, MCY97-380D-12D, MCY97-38CD-5D
Circuit board pin spacing
Viewed from component side
(Top View)



Circuit board pin spacing enlarged to 200% of actual size