

Specifications

RoHS Compliant

Model Name: UDT-1xxD

Description: Dual In-line Package

Contact Form: 1 Form C

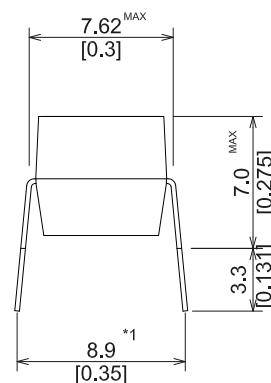
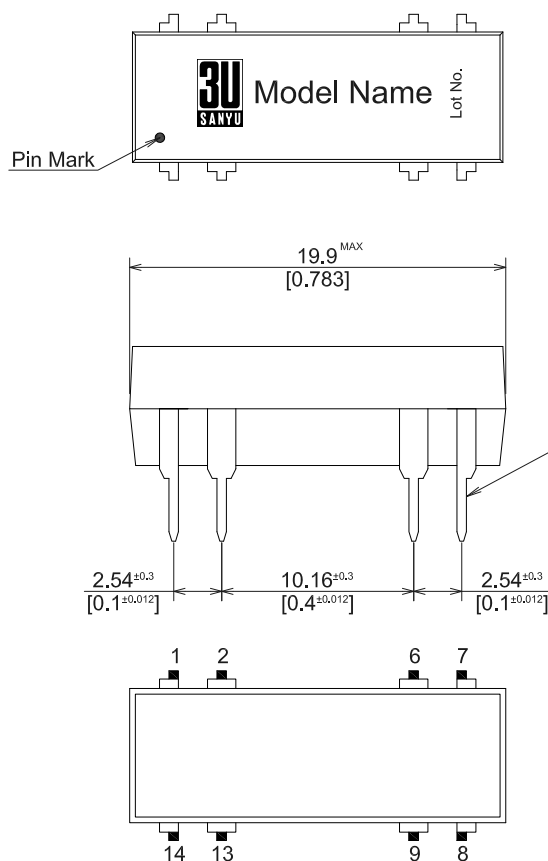
w/Diode

Coil Spec		UDT-105D			UDT-112D			UDT-124D			
Test Parameters	Test Conditions	Min	Nom	Max	Min	Nom	Max	Min	Nom	Max	Units
Coil Voltage			5.0			12.0			24.0		VDC
Coil Resistance	+/-10% 20°C		200			500			2150		Ω
Must Operate	at 20°C			3.75			8.8			17.6	VDC
Must Release	at 20°C	0.7			1.2			2.4			VDC
Electrical											
Test Parameters		Test Conditions						Min	Nom	Max	Units
Switching Voltage		DC/Peak AC Resist								30	V
Switching Current		DC/Peak AC Resist								0.2	A
Carry Current	at 30 °C	DC/Peak AC Resist								0.5	A
Contact Rating		DC/Peak AC Resist								3	W
Life Expectancy	at 20 °C	at 1V 10mA						50			×10 ⁶ Cycle
Contact Resistance		Max Initial Operate Voltage								150	mΩ
Contact Resistance Stability		Max Initial Operate Voltage								5	mΩ
Insulation Resistance	Between Contacts	at 100 V 20 °C 65 %Rh						10 ¹⁰			Ω
	Contacts to Coil							10 ¹⁰			Ω
Dielectric Strength (Static)	Between Contacts	DC						200			V
	Contacts to Coil	DC						1500			V
Operate Time	(Including Bounce)	100 Hz		at Nominal Coil Voltage						2.0	ms
Release Time		Square Wave		Diode Suppression						2.2	ms
Environmental											
Operate Temperature								-20		60	°C
Storage Temperature								-40		85	°C
Operate Humidity								25		75	%Rh
Vibration		2000 Hz								20	G's
Shock										50	G's
Measurement Reference Condition		Temperature						15		35	°C
		Humidity						25		75	%Rh
		Atmospheric Pressure						860		1060	hPa

Dimensions						CHAR	H.Yano
A-D1003						CHK	S.Terao
Note						APPR	J.Morinaga
						ISSUED	2012/2/7
REV	1	New enrollment(Changed the format from S-D0012, subject to databasing.)				CHAR	H.Yano
						APPR	J.Morinaga
						DATE	2012/2/10

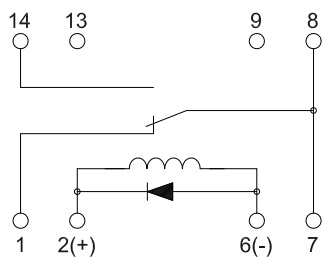
DIMENSIONS

All Dimensions are measured in millimeters[inch]



The side view is symmetric

*1 Reference Value

SCHEMATIC <TOP VIEW>

(Pin mark(●) corresponds to the terminal number 1.)

(Coil polarities,(+) and (-).)

1	12. 2. 3	New enrollment	H.Yano	J.Morinaga		
ISSUED	DATE	DESCRIPTION	CHAR	APPD	SCALE	MODEL
					n/s	UDT-1C series
REVISIONS					TITLE	DIMENSIONS
DRAFTING	ENGINEER	CHAR	CHK	APPD	UNIT	 SANYU SWITCH CO., LTD.
H.Yano	H.Yano	H.Yano	S.Terao	J.Morinaga	mm [inch]	