

Specifications

RoHS Compliant

Model Name: USM-136xxSB

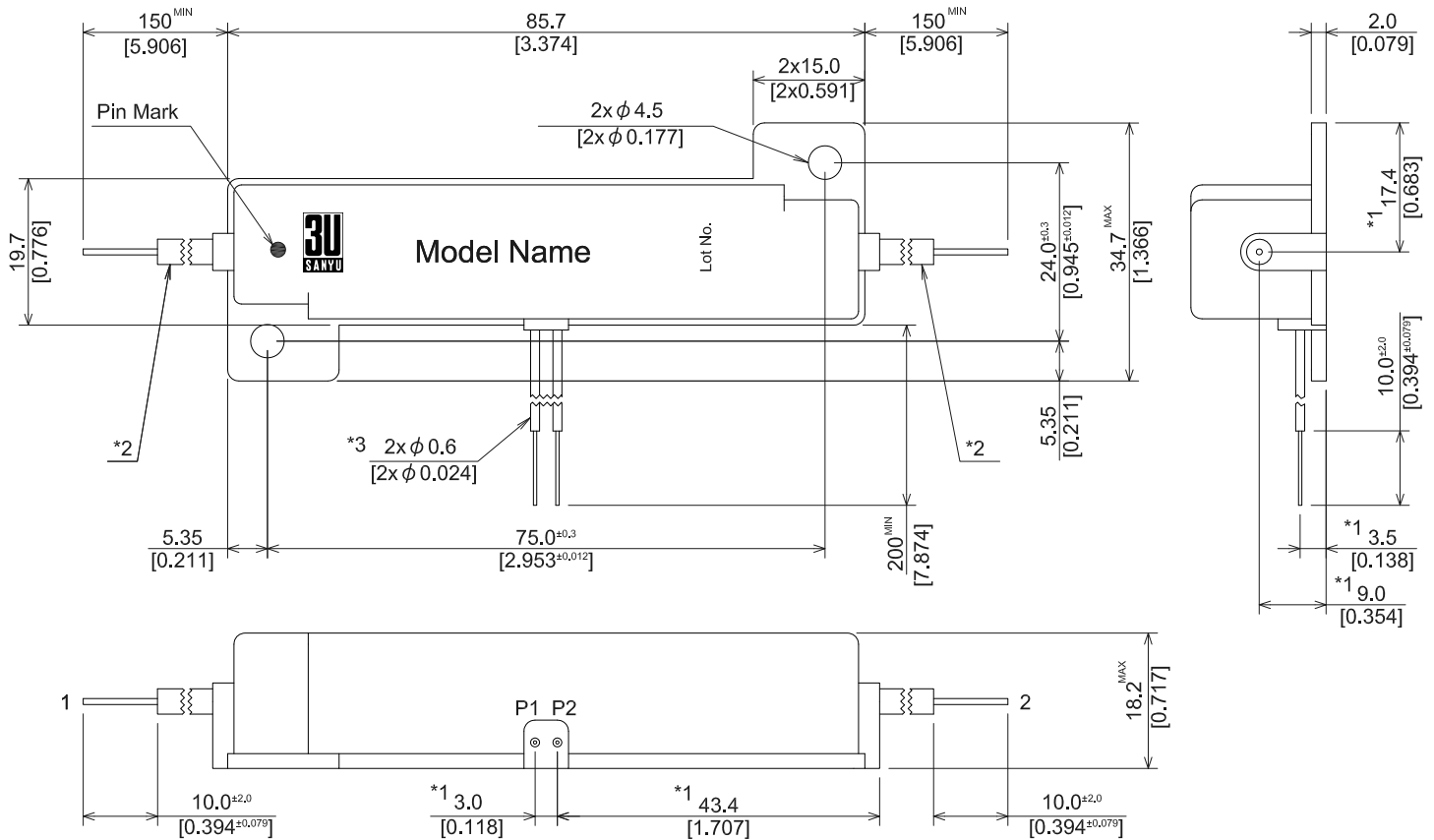
Description: Extra High Breakdown Voltage Type
Contact Form: 1 Form A

Coil Spec		USM-13605SB			USM-13612SB			USM-13624SB			
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		80			250			600		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								7500	V
Switching Current		DC/Peak AC Resist								3.0	A
Carry Current	at 30 °C	DC/Peak AC Resist								4.0	A
Contact Rating		DC/Peak AC Resist								50	W
Life Expectancy	at 20 °C	at 1V 10mA						100			×10 ⁶ Cycle
Contact Resistance		Max Initial Operate Voltage								500	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						10000			V
	Contacts to Coil	DC						10000			V
Operate Time	(Including Bounce)	100 Hz		at Nominal Coil Voltage						5.0	ms
Release Time		Square Wave		Diode Suppression						5.0	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-S1001						CHK	S.Terao	
Note							APPR	J.Morinaga
							ISSUED	2012/3/9
REV	3	Drawing correction				CHAR	S.Terao	
						APPR	J.Morinaga	
						DATE	2015/5/20	

DIMENSIONS

All Dimensions are measured in millimeters [inch]



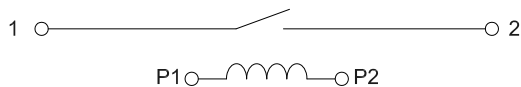
*1 Reference Value

*2 : UL 3239 AWG22 Silicone high-voltage wire

*3 : FEP Wire


SCHEMATIC <TOP VIEW>

The side view is symmetric



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

5	15.05.20	Added Item *1~*3	S.Terao	J.Morinaga
4	14.02.12	Drawing correction	J.Morinaga	J.Morinaga
3	13.03.05	Added Pin Mark	K.Ejima	J.Morinaga
2	12.10.05	Added "HA707 series." Corrected Dimensions	S.Fukuhara	J.Morinaga
1	12.02.23	New enrollment	H.Yano	J.Morinaga

ISSUED	DATE	DESCRIPTION	CHAR	APPD	SCALE	MODEL
REVISIONS					n/s	USM-1A SB series
						TITLE
						DIMENSIONS
DRAFTING	ENGINEER	CHAR	CHK	APPD	UNIT	 SANYU SWITCH CO., LTD.
H.Yano	H.Yano	H.Yano	S.Terao	J.Morinaga	mm [inch]	