

Tactile Switches, .138 [3.5] x .236 [6], Surface Mount

MATERIAL SPECIFICATIONS:

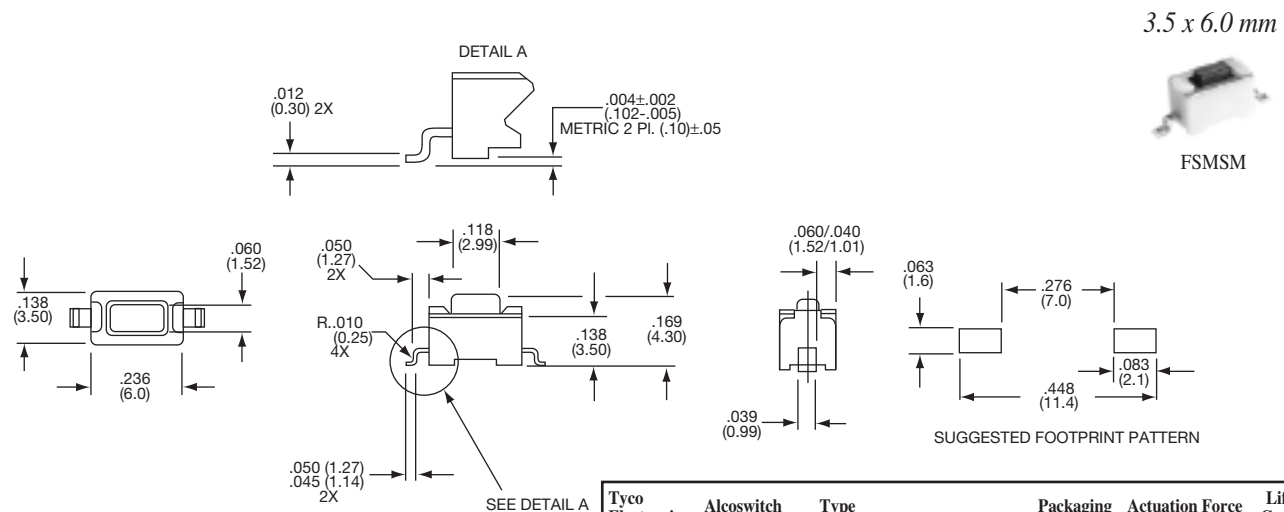
ContactsStainless steel, silver clad plate
Case MaterialFSMSM: PPS
Actuator MaterialFSMSM: Nylon
FSMJM: PPS
TerminalsCopper alloy, silver plate or tin plate
Cover.....Stainless steel

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating50 mA @ 12 VDC
Initial Contact Resistance100 Milliohms max.
Insulation Resistance100 Megohms min. @ 500 VDC
Dielectric Strength500 VAC for 1 minute
Actuator Travel......010"(.254)
Life Expectancy20,000-40,000 Cycles

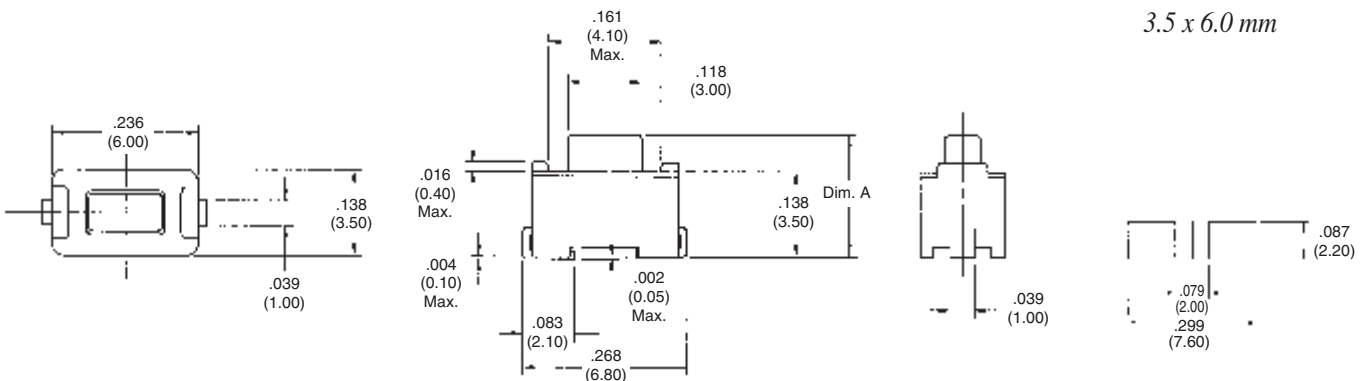
ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-40°F to +185°F (-40°C to +85°C)
Storage Temperature.....-40°F to +185°F (-40°C to +85°C)
Solder Heat ResistanceFSMSM IR Soldering EIA-364-56,
Procedure 5 Level 1, 215° C
FSMJM IR Soldering per EIA 364-56
Procedure 5, level 2, 464°F (240°C)



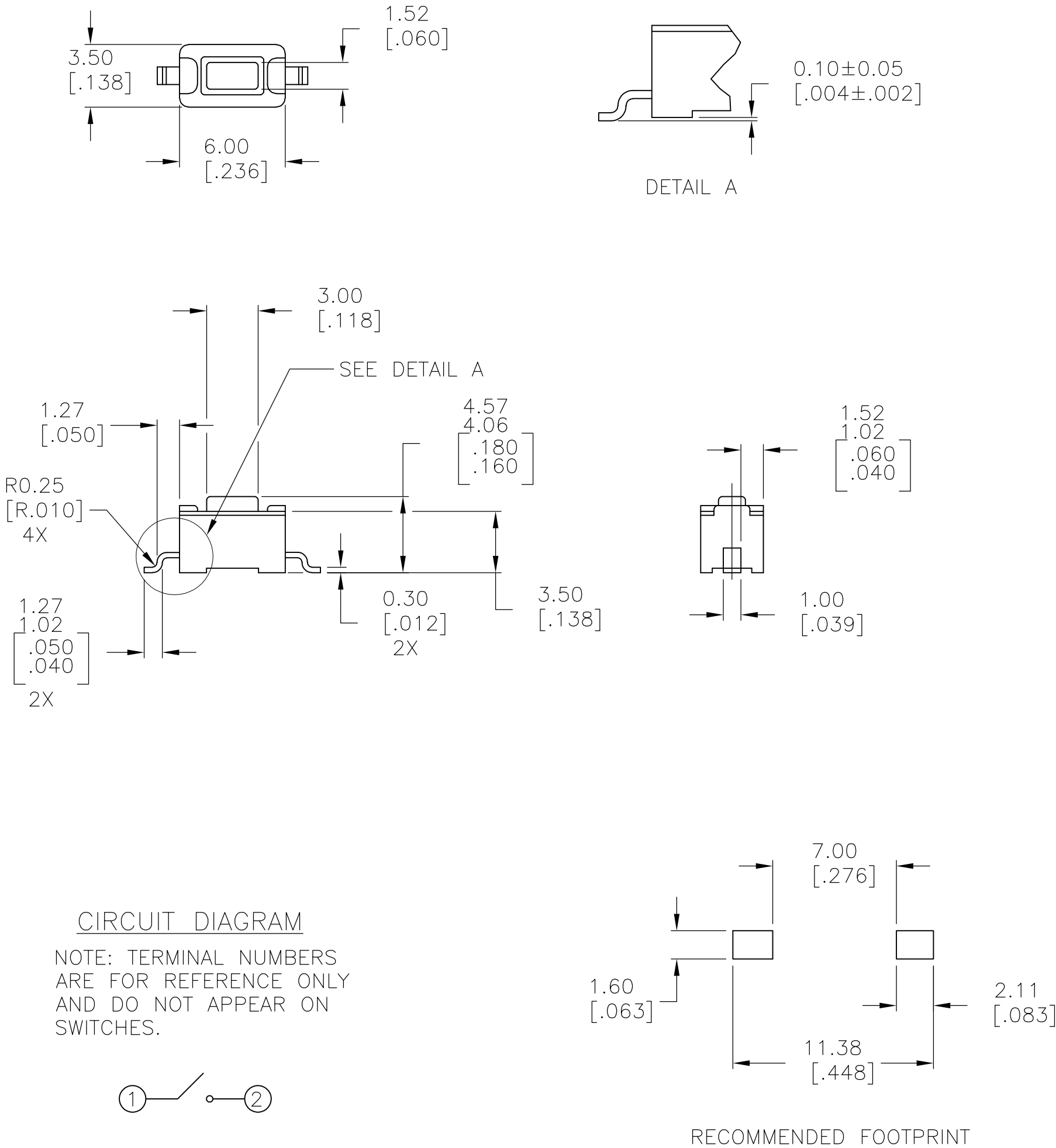
Tyco Electronics	Alcoswitch	Type	Packaging	Actuation Force	Life Cycle
1437566-3	FSMSM	SPST Off (On)	Bulk	180±50	20,000
1437566-4	FSMSMTR		Reel	180±50	20,000

(On) indicates momentary position.



Tyco Electronics	Alcoswitch	Type	Dim. A	Actuation Force	Packaging	Life Cycle
147873-1	FSMJM5.0ATR	SPST	.197 (5.00)	180±50	Reel	40,000
147873-2	FSMJM4.3ATR	SPST	.169 (4.30)	180±50	Reel	40,000
147873-3	FSMJM3.5ATR	SPST	.138 (3.50)	180±50	Reel	40,000
147942-1	FSMJM4.3	SPST	.169 (4.30)	130±50	Bulk	40,000
147942-2	FSMJM4.3TR	SPST	.169 (4.30)	130±50	Reel	40,000

LOC	DIST	REVISIONS					
		P	LTR	DESCRIPTION	DATE	DWN	APVD
AD	00		C	ECO-07-000908	02JUL07	MB	MS



SPECIFICATIONS:

MATERIALS:
CASE: NYLON 46, G30, BROWN
COVER: STAINLESS STEEL
ACTUATOR BUTTON: PPS, BLACK.
MOVING CONTACT: 301 STAINLESS STEEL, 20μ” Ag CLAD.
FIXED CONTACT/TERMINALS: BRASS, 40μ”, Ag PLATE.

ELECTRICAL:
MAX CONTACT RATING: 50MILLIAMPS@24V DC
MIN CONTACT RATING: 10MICROAMPS@1V DC
INITIAL CONTACT RESISTANCE: 100 MILLIOHMS MAX.
INSULATION RESISTANCE: 500 MEGOHMS MIN @ 500 VDC.
DIELECTRIC STRENGTH: 500 VAC 50/60 Hz FOR 1 MINUTE
LIFE EXPECTANCY: 20,000 CYCLES MIN.

MECHANICAL:
ACTUATION FORCE: SEE TABLE
ACTUATION TRAVEL: 0.25mm [.010”] APPROX.

ENVIRONMENTAL:
OPERATING TEMPERATURE: -35°C TO +85°C
STORAGE TEMPERATURE: -35°C TO +85°C
SOLDER HEAT RESISTANCE PER 109-201, COND B
SOLDERABILITY SPEC EIA-364-52, CLASS 1, CATEGORY 2

NOTES:

- ALL MATERIALS AND FINISHES SHALL COMPLY WITH EU DIRECTIVE 2002/95/EC OF 27JAN2003 (ROHS)
- SUBCONTRACTOR TO NOTE PART NUMBER MANUFACTURING LOT NUMBER AND QUANTITY ON EACH PACKAGE.
- PARTS ARE TO BE COMMERCIALY FREE OF ALL BURRS (MAX. OF 5% OF MATERIAL THICKNESS). NO LOOSE BURRS PERMITTED.
- TERMINAL TO BE FLUSH TO THE CASE BOTTOM, SEE DETAIL A.

180 ±50 gm.	FSMSMTR	1437566-4
180 ±50 gm.	FSMSM	1437566-3
ACTUATION FORCE	OLD T&B PART NUMBER	TYCO PART NO.

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN 12FEB96 S.KIRCORIAN	Tyco Electronics Corporation Harrisburg, Pa 17105-3608			
DIMENSIONS: mm [INCHES]		CHK -	NAME FSMSM PUSHBUTTON SWITCH			
		APVD 23FEB96 W.MONTAGUE				
		PRODUCT SPEC -				
		APPLICATION SPEC -	SIZE A2		CAGE CODE 00779	DRAWING NO C=1437566-3
MATERIAL SEE SPECIFICATIONS		FINISH SEE SPECIFICATIONS	WEIGHT -	SCALE 4:1		SHEET 1 OF 1
CUSTOMER DRAWING				REV C		