

FSA515

Table 1. PIN FUNCTION DESCRIPTION

Pin No. (WLCSP4)	Pin Name	Description
A1	GND	Ground
A2	1A	A Port of Switch 1 (Normally Closed)
B1	VDD	Supply Voltage (Switch is closed when Low)
B2	1B	B Port of Switch 1 (Normally Closed)

Table 2. SWITCH TRUTH TABLE

VDD	Switch State
Low	ON (Conducting)
High	OFF (Isolating)

Table 3. RECOMMENDED EXTERNAL COMPONENT

Component	Description	Vendor	Parameter	Min	Typ
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Table 6. RECOMMENDED OPERATING RANGES

Rating		Symbol	Min	Max	Unit
Supply Voltage	Isolating	$V_{DD(OFF)}$	2.5	5.5	V
	Conducting	$V_{DD(ON)}$	0	0.5	V
Switch Voltage Range	Isolating	$V_{SW(OFF)}$	3.0 (Vpk; AC)	4.7	V
	Isolating (requires 1 k Ω (typ) in series with source)		4.7	5.5	
	Conducting	$V_{SW(ON)}$	3.0 (Vpk; AC)	4.7	V
	Isolating (requires 1 k Ω (typ) in series with source)		4.7	5.5	
Ambient Temperature		T_A	40	85	$^{\circ}\text{C}$

Functional operation above the stresses listed in the Recommended Operating Ranges is not implied. Extended exposure to stresses beyond the Recommended Operating Ranges limits may affect device reliability.

Table 7. ELECTRICAL CHARACTERISTICS Unless otherwise specified, typical values are for $T_A=25^{\circ}\text{C}$, $V_{DD} = 0\text{ V}$

Parameter	Test Conditions	Symbol	Min	Typ	Max	Unit
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SWITCH DC CHARACTERISTICS

Switch Off Leakage Current	$V_{DD} = 5\text{ V}$ $1B = \text{GND}$	$1A = 5.5\text{ V}$	I_{OFF}		0.01		μA
		$1A = 1.5\text{ V}$			0.65		
	$V_{DD} = 3.3\text{ V}$ $1B = \text{GND}$	$1A = 1.4\text{ V}$ (Note 5)			0.01	1.5	
Switch On Resistance	$I_{SW} = 100\text{ mA}$, $V_{SW} = 1.5\text{ V to }+1.5\text{ V}$ 401 refBTpa4 6.cm.0046 Tc(SW)Tj8 ote 5)						



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PACKAGE DIMENSIONS

WLCSP4, 0.815x0.815x0.457
CASE 567VT
ISSUE O

RECOMMENDED
MOUNTIN