

MOSFET Switch

To be used on I/O A&B (when set to Output)

#	Package	Manufacturer	Description	Part Number	DigiKey Part	Notes
Q1	SOT-23-3	International Rectifier	MOSFET N-CH 20V 4.2A SOT-23	IRLML2502TRPBF	IRLML2502PBFCT-ND	MOSFET
R1	0805	Panasonic - ECG	RES SMD 150 OHM 1% 1/8W 0805	ERJ-6ENF1500V	P150CCT-ND	150 ohm gate resistor
R2	0805	Panasonic - ECG	RES 10.0K OHM 1/8W 1% 0805 SMD	ERJ-6ENF1002V	P10.0KCCT-ND	10k MOSFET pull-down to ground
R3	0805	Panasonic - ECG	RES 1.00K OHM 1/8W 1% 0805 SMD	ERJ-6ENF1001V	P1.00KCCT-ND	1k LED current limiter
D1	1206	AVX Corp	DIODE SCHOTTKY 40V 1A 1206	SD1206S040S1R0	478-7805-1-ND	Schottky - for flyback protection
D2	0805	Lite-On, Inc	LED GREEN CLEAR 0805 SMD	LTST-C170GKT	160-1179-1-ND	Green indicator LED, 2.1 fv, 10mA
JP6	Header	JST	CONN HEADER PH SIDE 2POS 2MM SMD	S2B-PH-SM4-TB(LF)(SN)	455-1749-1-ND	JST-PH - surface mount side entry