Tyco/Electronics
Raychem Circuit Protection
308 Constitution Drive
Menlo Park, CA 94025-1164
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**PolySwitch®
Power Switch
Devices**

PRODUCT: RYC8220-1M

DOCUMENT: SCD24674
PCN: 956075
REV LETTER: C
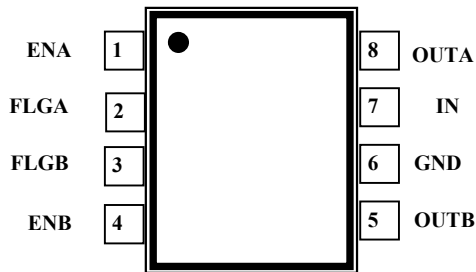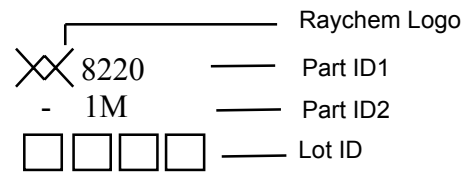REV DATE: OCTOBER 9, 2001
PAGE NO.: 2 OF 2

ELECTRICAL CHARACTERISTICS - NOTES

Note 1. Exceeding the absolute maximum rating may damage the device.

Note 2. Devices are ESD sensitive. Handling precautions recommended.

Note 3. The device is not designed to function outside its operating rating.

Note 4. Off is $\leq 0.8V$ and on is $\geq 2.4V$ for the RYC8220-1 and RYC8220-3. Off is $\geq 2.4V$ and on is $\leq 0.8V$ for the RYC8220-2 and RYC8220-4. The enable input has approximately 200mV of hysteresis. Pull-down/Pull-up resistors are on chip for "-1" and "-2" configurations.

Note 5. Pull-up resistors are on chip.

Note 6. No error flag out delay on UVLO, OVLO and thermal shutdown.
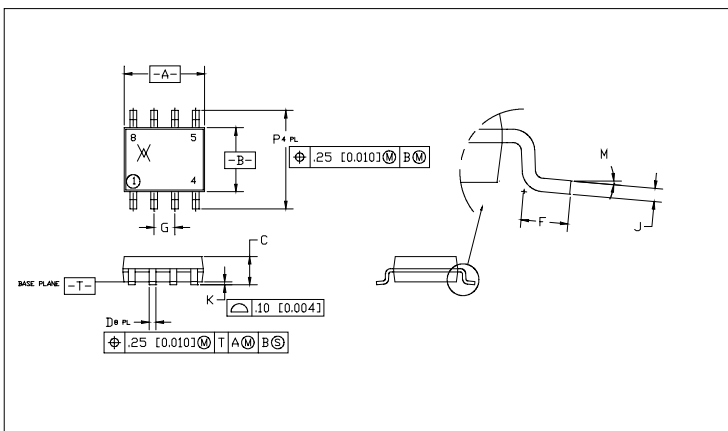
PIN CONFIGURATION:

DEVICE MARKING:

PIN DESCRIPTIONS:

Pin Number	Pin Name	Pin Function
1, 4	EN	Enable (Input): Logic-compatible enable input. High input > 2.4V Low input <1.8V (-1, -3 active high, -2, -4 active low). Do not float.
2, 3	FLG	Fault Flag (Output): Active-low open-drain output. Indicates overcurrent, UVLO, OVLO and thermal shutdown.
6	GND	Ground: Supply return
7	IN	Supply Input: Output MOSFET drain. Also supplies IC's internal circuitry. Connect to positive supply.
5 and 8	OUT	Switch Output: Output MOSFET source. Typically connect to switched side of load.

MECHANICAL DIMENSIONS:

DIMENSION	MIN mm	MAX mm	*MIN inch*	*MAX inch*
A	4.80	5.00	*0.190*	*0.197*
B	3.80	4.00	*0.150*	*0.157*
C	1.35	1.75	*0.054*	*0.068*
D	0.35	0.49	*0.013*	*0.020*
F	0.40	1.27	*0.016*	*0.050*
G	1.27 BSC		*0.050 BSC*	
J	0.18	0.25	*0.0075*	*0.010*
K	0.10	0.25	*0.004*	*0.010*
M	0°	8°	*0°*	*8°*
P	5.80	6.20	*0.228*	*0.244*

SO-8 PACKAGE NOTES:

1. Dimensions and tolerance per ANSI Y14.5M-1982.
2. Dimensions A and B are datums and T is a datum surface.
3. Controlling dimensions: Millimeters
4. Dimension A and B do not include mold flash. Mold flash shall not exceed 0.15mm [0.006] per side.
5. Dimension D does not include interlead flash. Interlead flash shall not exceed 0.25 mm [0.010].

This datasheet has been downloaded from:

www.DatasheetCatalog.com

Datasheets for electronic components.