

Panasonic

SK8403200L

Silicon N-channel MOSFET

For Li-ion battery / for DC-DC converter

■ Features

- Low drain-source ON resistance: $R_{DS(on)}$ typ. = 3.7 m Ω (V_{GS} = 10 V)
- Halogen-free / RoHS compliant
(EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

■ Marking Symbol: 1A

■ Packaging

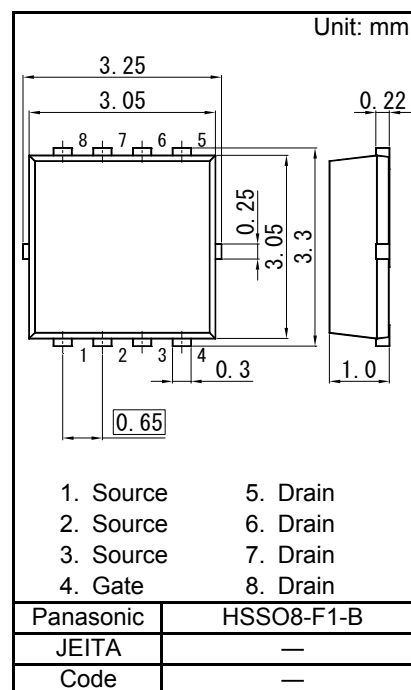
Embossed type (Thermo-compression sealing) : 3 000 pcs / reel (standard)

■ Absolute Maximum Ratings T_a = 25 °C

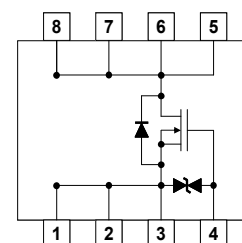
Parameter	Symbol	Rating	Unit
Drain-source Voltage	V_{DSS}	30	V
Gate-source Voltage	V_{GSS}	± 20	V
Drain current	I_D	23	A
Drain current(Pulsed) $t=1ms$	I_{Dp}^{*1*2}	81.5	A
Total Power Dissipation	$T_a = 25\text{ }^\circ\text{C}, t = 10\text{ s}$	PD^{*1*2} 2	W
	$T_c = 25\text{ }^\circ\text{C}$	PD^{*1*2} 30	
Thermal Resistance	Channel to Ambient	$R_{th(ch-a)}$ 62.5	$^\circ\text{C} / \text{W}$
	Channel to Case	$R_{th(ch-c)}$ 4.1	
Channel Temperature	T_{ch}	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 to +150	$^\circ\text{C}$

Note *1 Device mounted on a glass-epoxy board in Figure 1

*2 Pulse test: Ensure that the channel temperature does not exceed 150 °C



Internal Connection



Pin Name

1. Source 5. Drain
2. Source 6. Drain
3. Source 7. Drain
4. Gate 8. Drain

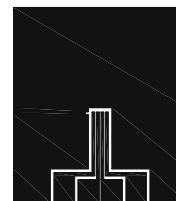


Figure 1 FR4 Glass-Epoxy Board
25.4 mm × 25.4 mm × 0.8 mm