Panasonic

FK8V03040L

Silicon N-channel MOSFET

For lithium-ion secondary battery protecion circuit
For DC-DC Converter

■ Features

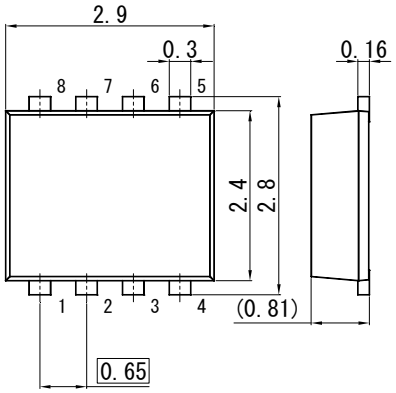
- Low drain-source On-state Resistance
  RDS(on) typ = 11 mΩ (VGS = 4.5 V)
- High-speed switching : Qg = 7.2 nC
- Halogen-free / RoHS compliant
  (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

■ Marking Symbol: 3D

■ Packaging

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

Unit: mm



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

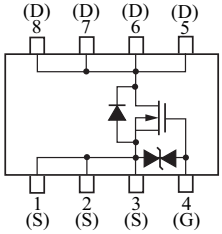
Panasonic	WMini8-F1
JEITA	SC-115
Code	—

■ Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Rating	Unit
Drain-source Voltage	VDS	33	V
Gate-source Voltage	VGS	±20	V
Drain Current (Steady State) *1	ID	10	A
Drain Current (t = 10 s) *1		12	
Drain Current (Pulsed) *1,*2	IDp	40	
Source Current (Pulsed) (Body Diode) *1,*2	ISp (BD)	10	
Total Power Dissipation (Steady State) *1	PD	1	W
Total Power Dissipation (t = 10 s) *1		1.5	
Channel Temperature	Tch	150	°C
Operating Ambient Temperature	Topr	-40 to + 85	°C
Storage Temperature Range	Tstg	-55 to +150	°C

Note) *1 Device mounted on a glass-epoxy board (See Figure 1)
*2 Pulse test: Ensure that the channel temperature does not exceed 150°C.

Internal Connection



Pin Name

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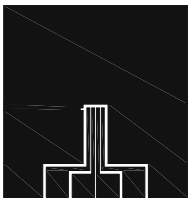

Figure1 FR4 Glass-Epoxy Board
25.4 mm × 25.4 mm × 0.8 mm