

# Panasonic

## FC8V33030L

### Dual N-channel MOSFET

For switching

For DC-DC Converter

#### ■ Features

- Low drain-source On-state Resistance :  
RDS(on) typ = 22 mΩ (VGS = 4.5 V)
- High-speed switching : Qg = 3.8 nC
- Halogen-free / RoHS compliant  
(EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

#### ■ Marking Symbol: 6A

#### ■ Basic Part Number : Dual Nch MOS 33V (Individual)

#### ■ Packaging

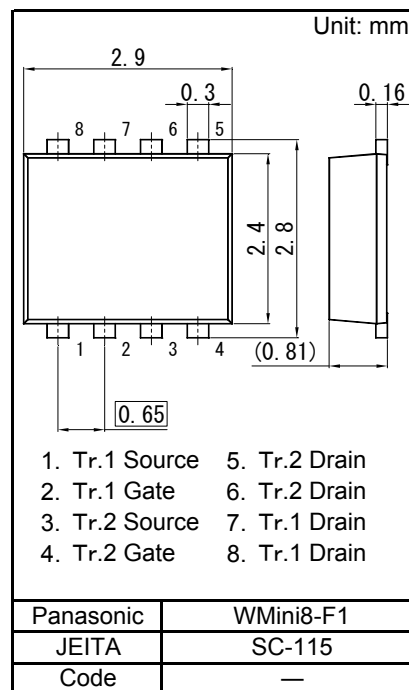
Embossed type (Thermo-compression sealing) : 3 000 pcs / reel (standard)

#### ■ Absolute Maximum Ratings Ta = 25 °C Tr.1, Tr.2

Parameter	Symbol	Rating	Unit
Drain-source Voltage	VDS	33	V
Gate-source Voltage	VGS	±20	V
Drain Current (Steady State) <sup>*1</sup>	ID	6.5	A
Drain Current (t = 10 s) <sup>*1</sup>		8	
Drain Current (Pulsed) <sup>*1,*2</sup>		26	
Source Current (Pulsed) (Body Diode) <sup>*1,*2</sup>		ISp (BD)	
Total Power Dissipation (Steady State) <sup>*1</sup>	PD	1	W
Total Power Dissipation (t = 10 s) <sup>*1</sup>		1.5	
Channel Temperature	Tch	150	°C
Operating Ambient Temperature	Topr	-40 to + 85	°C
Storage Temperature Range	Tstg	-55 to +150	°C

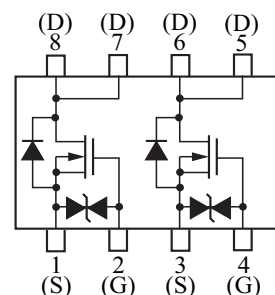
Note) \*1 Device mounted on a glass-epoxy board (See Figure 1)

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



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

#### Internal Connection



#### Pin Name

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

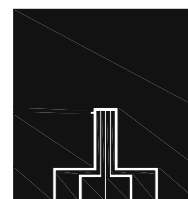


Figure1 FR4 Glass-Epoxy Board  
25.4 mm × 25.4 mm × 0.8 mm