

# MTM232270LBF Silicon N-channel MOS FET

### For switching

MTM13227 in SMini3 type package

### Features

- Low drain-source On-state resistance : RDS(on) typ = 85 m $\Omega$  (VGS = 4.0 V)
- Low drive voltage: 2.5 V drive Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL : Level 1 compliant)
- Marking Symbol : ET

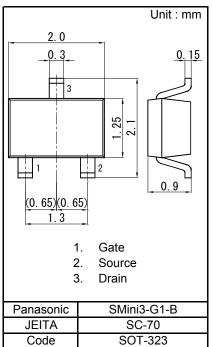
### Packaging

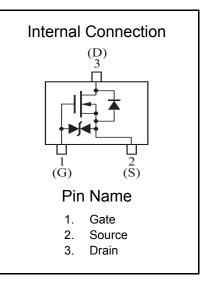
Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

■ Absolute Maximum Ratings Ta = 25 °C					
項目	記号	定格	単位		
Drain-source Voltage	VDS	20	V		
Gate-source Voltage	VGS	±10	v		
Drain current	ID	2.0	A		
Peak drain current <sup>*1</sup>	IDp	8	A		
Power dissipation <sup>*2</sup>	PD	500	mW		
Channel temperature	Tch	150	°C		
Operating ambient temperature	Topr	-40 to +85	°C		
Storage Temperature Range	Tstg	-55 to +150	°C		
	0/				

Note) \*1 Pulse width  $\leq 10 \ \mu s$ , Duty cycle  $\leq 1 \ \%$ 

\*2 Measuring on ceramic board at  $40 \times 38 \times 0.1$  mm Absolute maximum rating PD without heat sink shall be made 150 mW.







<u>最小</u> 20	標準	最大	単位	
			푸뜨	
			V	
,		10	μA	
,		±10	μA	
V 0.4	0.85	1.3	V	
	85	110		
/	100	150	mΩ	
= 1 kHz 3.0			S	
	290			
= 1 MHz	26		pF	
	20			
V	12		ns	
			ns	
	= 1 kHz 3.0 = 1 MHz V	= 1 kHz 3.0 = 1 MHz 290 V 20 V 12	= 1 kHz 3.0 290 = 1 MHz 26 20	

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 Measuring methods for transistors.

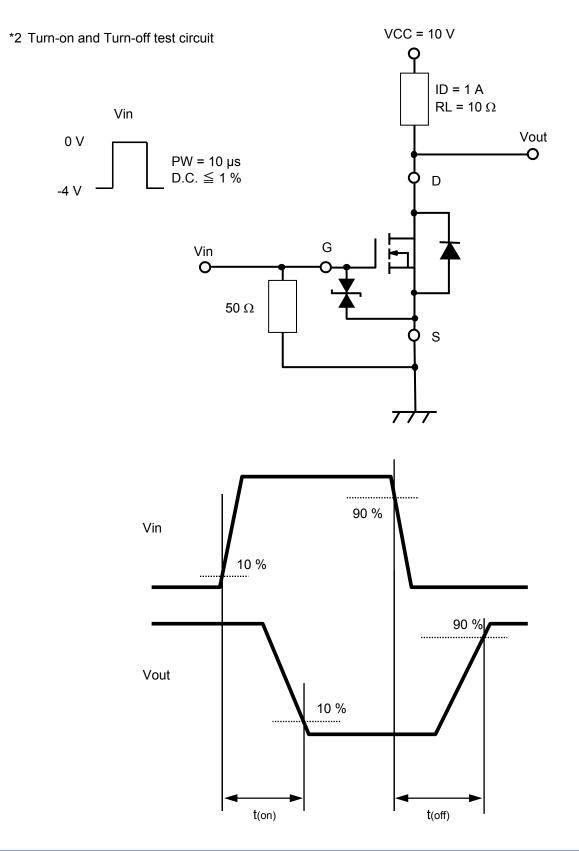
2. \*1 Pulse test : Pulse width  $\leq$  10  $\mu s$  , Duty cycle  $\leq$  1 %

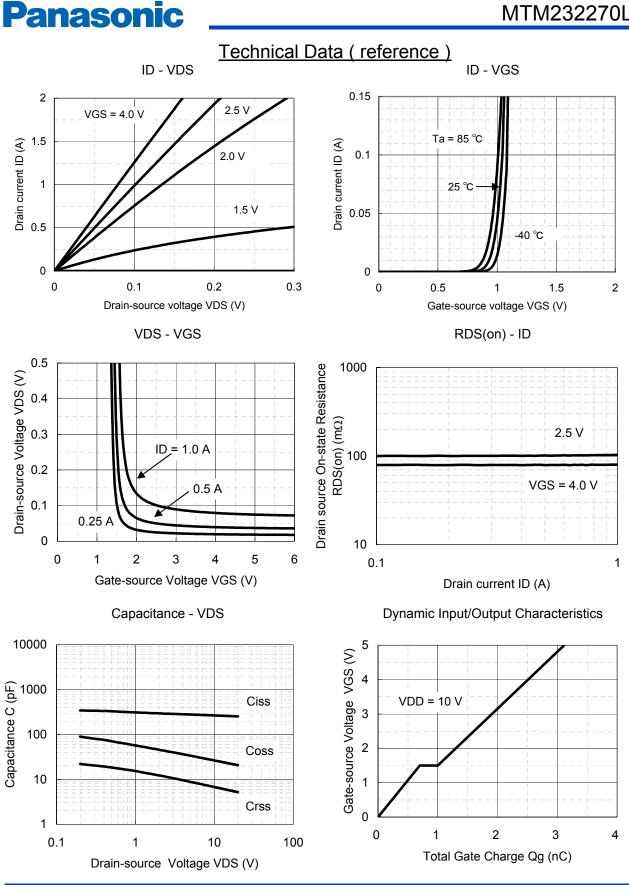
\*2 Turn-on and Turn-off test circuit

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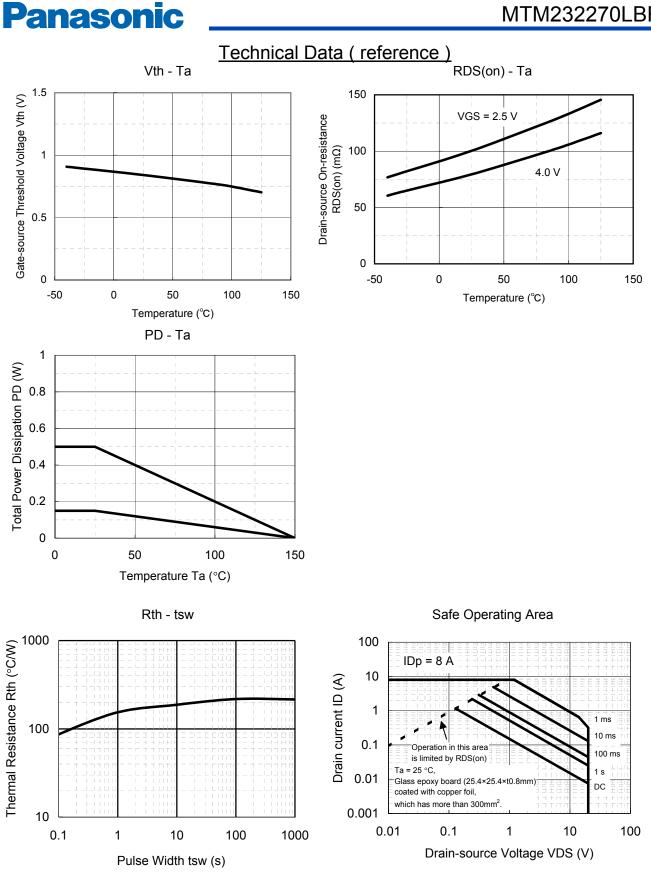
# **Panasonic**

MOS FET MTM232270LBF





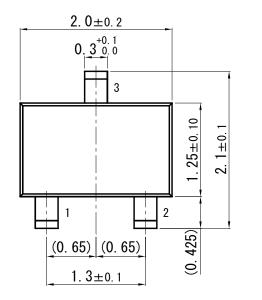
Page 4 of 6

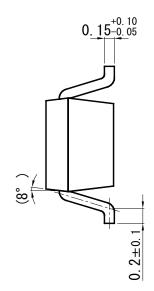


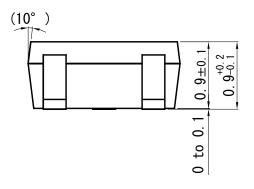
Page 5 of 6



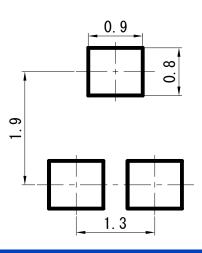
# SMini3-G1-B







Land Pattern (Reference) (Unit : mm)



Established : 2011-03-09 Revised : 2013-09-02

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