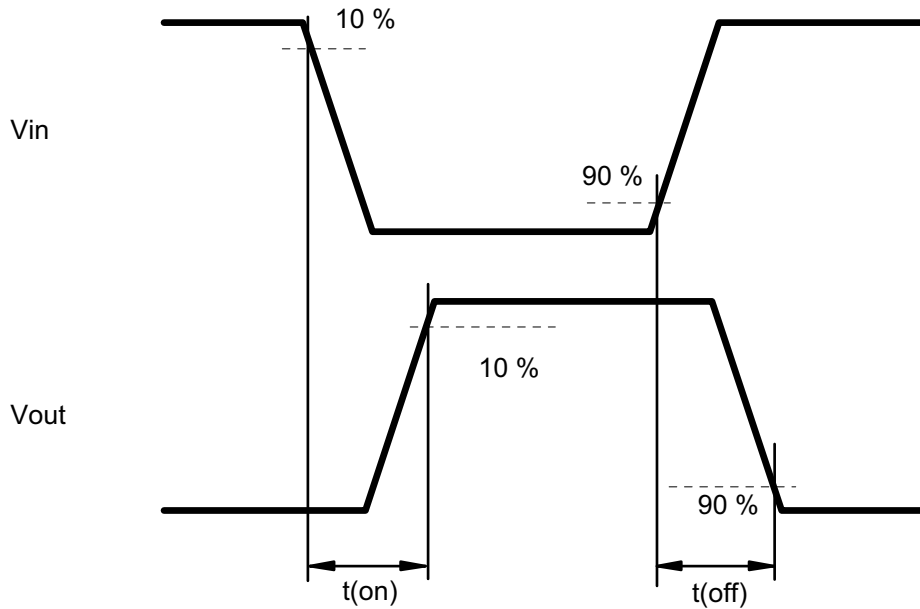
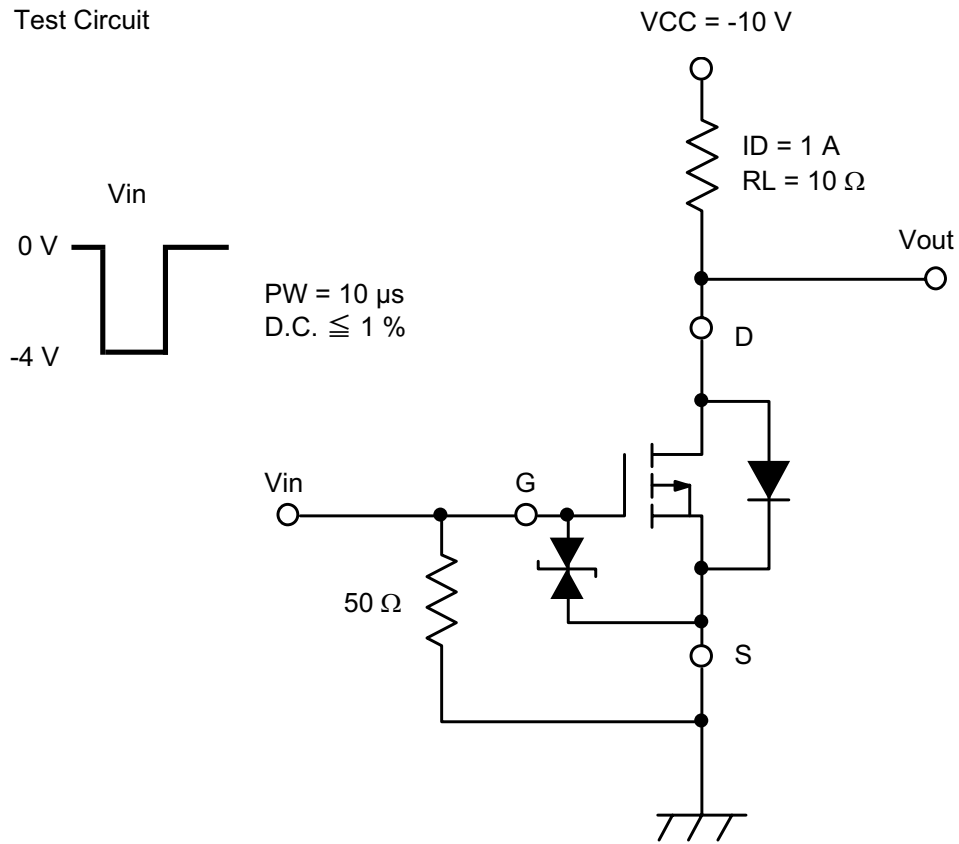


Product Specification Type Number : M T M 7 6 1 2 3 0 L B F *5		Prepared by S.Miyata	Checked by M.Fujisawa	Applied by H.Shidooka	Established by K.Kemichi		
Type	Silicon Field Effect Transistors						
Application	Switching						
Structure	P-Channel MOS Type						
Outline	WSMini6-F1-B		Marking		9C		
Absolute Maximum Ratings	VDSS (V)	VGSS (V)	ID (A)	*2 IDp (A)	*1 PD (mW)	Tch (°C)	Tstg (°C)
	-20	±10	-3.0	-16	700	150	-55 to +150
Electrical characteristics (Ta = 25 °C ±3 °C)							
Item	Symbol	Measuring condition	Limit			Unit	
			min.	typ.	max.		
Drain-Source Voltage	VDSS	ID = -1 mA, VGS = 0 V	-20			V	
Drain-Source Cutoff Current	IDSS	VDS = -20 V, VGS = 0 V			-1.0	μA	
Gate-Source Cutoff Current	IGSS	VGS = ±8 V, VDS = 0 V			±10	μA	
Gate Threshold Voltage	Vth	ID = -1.0 mA, VDS = -10.0 V	-0.4	-0.85	-1.3	V	
Drain Resistance (ON)	RDS(ON) *3	ID = -1 A, VGS = -4.0 V		36	55	mΩ	
Drain Resistance (ON)	RDS(ON) *3	ID = -0.5 A, VGS = -2.5 V		42	70	mΩ	
Forward Transfer Admittance	Yfs *3	ID = -1.0 A, VDS = -10 V, f = 1 kHz	3.5			S	
Small-Signal Short-Circuit Input Capacitance	Ciss	VDS = -10 V, VGS = 0, f = 1 MHz		1000		pF	
Small-Signal Short-Circuit Output Capacitance	Coss	VDS = -10 V, VGS = 0, f = 1 MHz		100		pF	
Small-Signal Reverse Transfer Capacitance	Crss	VDS = -10 V, VGS = 0, f = 1 MHz		100		pF	
Turn-on Time	ton *4	VDD = -10 V, VGS = 0 to -4 V, ID = -1 A		30		ns	
Turn-off Time	toff *4	VDD = -10 V, VGS = -4 to 0 V, ID = -1 A		250		ns	
<p>Note: Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 Measuring methods for transistors.</p> <p>*1 Measuring on Ceramic substrate at 40×38×0.1mm. Absolute maximum rating PD without heat sink shall be made 150mW.</p> <p>*2 Pulse Width ≤10μs, Duty Cycle ≤1%</p> <p>*3 Pulse Test:Pulse Width <300μs, Duty Cycle <2.0%</p> <p>*4 Refer to the test circuit</p> <p>*5 Packing Embossed Type (Thermo-compression sealing)</p>							
2007.11.07							
Established	Revised						

Product Specification
 Type Number : M T M 7 6 1 2 3 0 L B F
 *5

Test Circuit



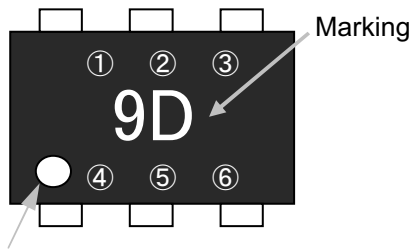
2007.11.07

Established

Revised

Product Specification
 Mark Indication
 Type Number : M T M 7 6 1 2 3 0 L B F |
*5

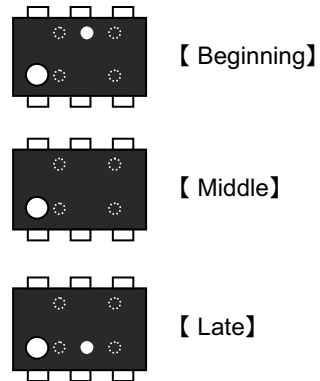
Mark layout



《②⑤ : Example of indication of beginning / middle / late month indication》

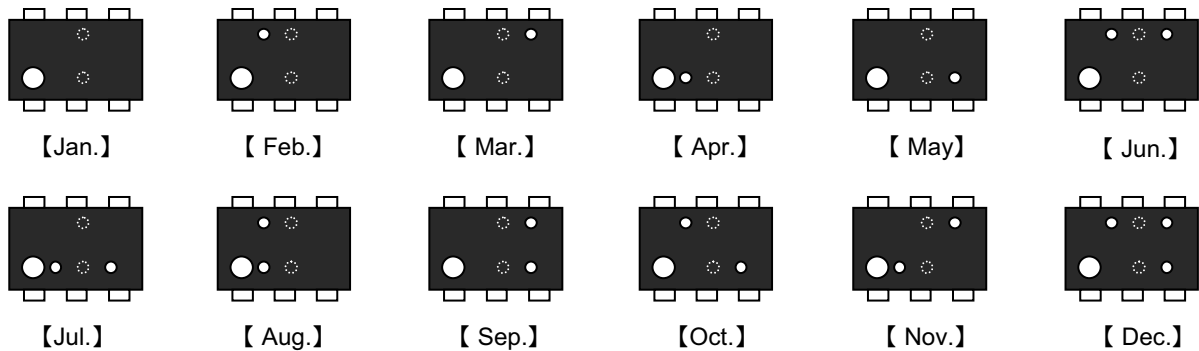
Indication of No.1 lead

①③④⑥ : Indication of produced month
 ②⑤ : Display position of beginning/middle /late month indication

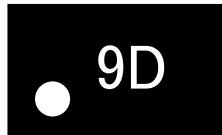


The actual font of product symbol may differ slightly from the font shown in this specification.

《 Example of indication of produced month 》

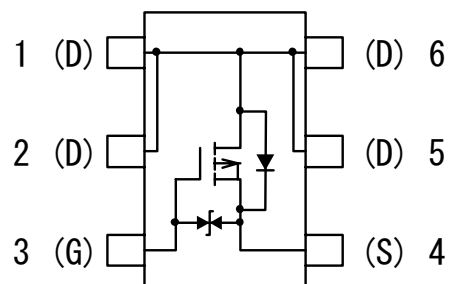


• Factory distinction mark

Factory	JAPAN		
Package code	WSMini6 - F1 - B		
Marking	No indication 		

※ White parts are treated by laser mark.

Lead No	Connection
1.	Drain
2.	Drain
3.	Gate
4.	Source
5.	Drain
6.	Drain



2007.11.07

Established

Revised