

■ Electrical Characteristics Ta = 25 °C ± 3 °C

FET (P-ch.)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Drain-source surrender voltage	VDSS	ID = -1.0 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 V	-0.4	-0.75	-1.1	V
Drain-source ON resistance *1	RDS(on)1	ID = -1.0 A, VGS = -4.0 V		80	120	mΩ
	RDS(on)2	ID = -1.0 A, VGS = -2.5 V		100	170	
	RDS(on)3	ID = -0.5 A, VGS = -1.8 V		140	230	
Forward transfer admittance *1	[Yfs]	ID = -1.0 A, VDS = -10 V, f = 1 kHz	3.0			S
Short-circuit input capacitance (Common source)	Ciss	VDS = -10 V, VGS = 0, f = 1 MHz		300		pF
Short-circuit output capacitance (Common source)	Coss			30		
Reverse transfer capacitance (Common source)	Crss			35		
Turn-on delay time *2	td(on)	VDD = -10 V, VGS = 0 V to -4.0 V		6		ns
Rise time *2	tr	ID = -1.0 A		8		
Turn-off delay time *2	td(off)	VDD = -10 V, VGS = -4.0 V to 0 V		57		ns
Fall time *2	tf	ID = -1.0 A		55		

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

2. *1 Pulse measurement

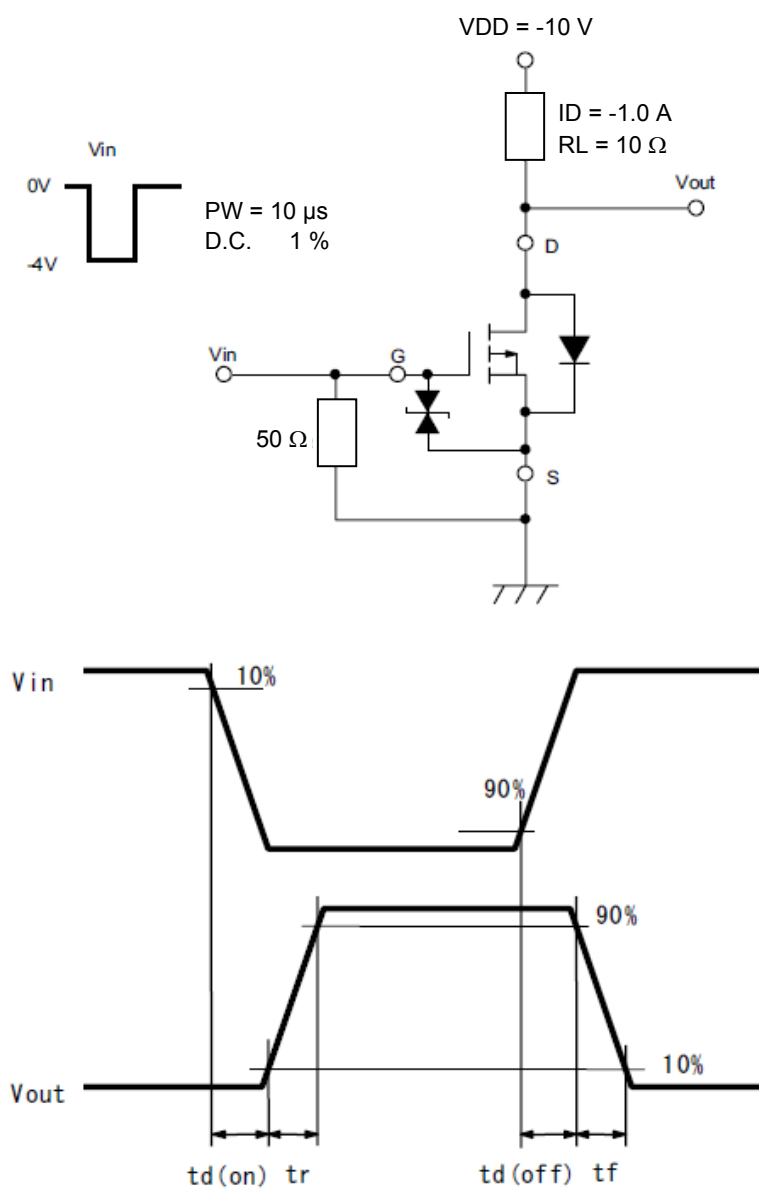
*2 Measurement circuit for Turn-on Delay Time/Rise Time/Turn-off Delay Time/Fall Time

SBD

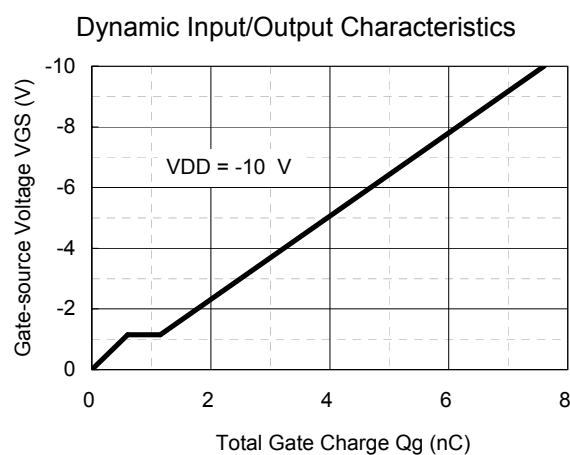
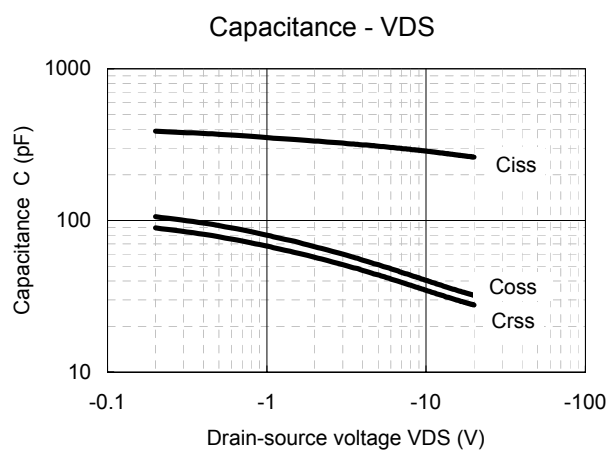
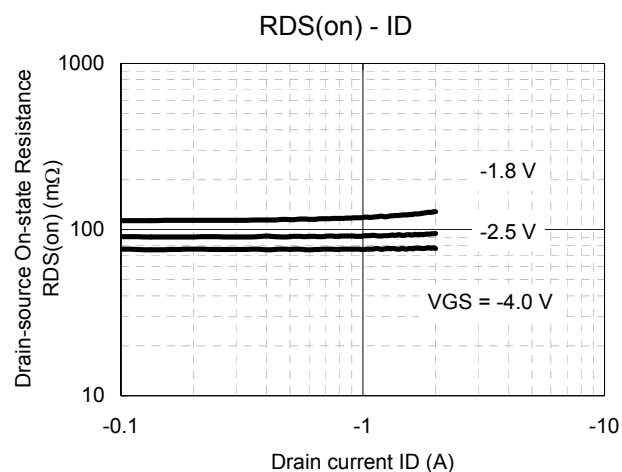
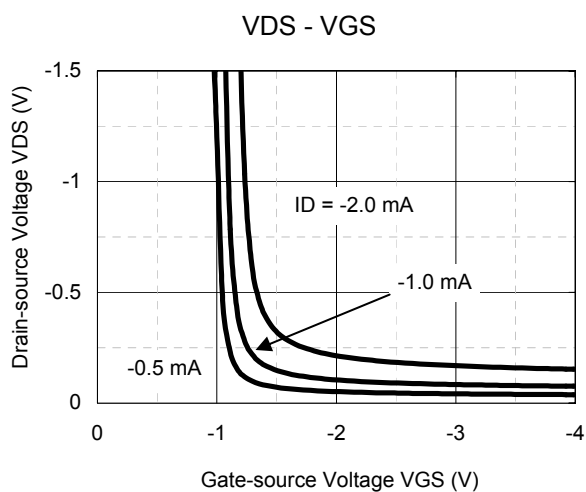
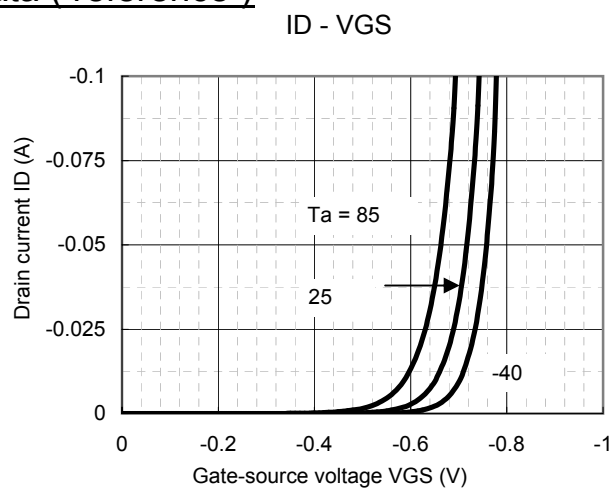
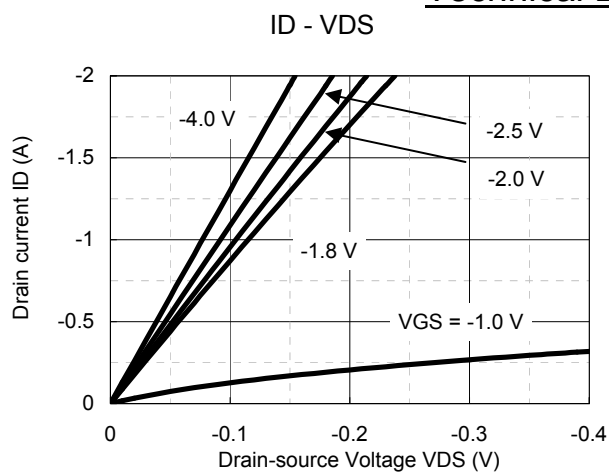
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	VF1	IF = 10 mA			0.4	V
	VF2	IF = 500 mA			0.55	
Reverse current	IR1	VR = 5 V			1	μA
	IR2	VR = 10 V			10	

Note: Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 Measuring methods for diodes.

*2 Measurement circuit for Turn-on Delay Time/Rise Time/Turn-off Delay Time/Fall Time

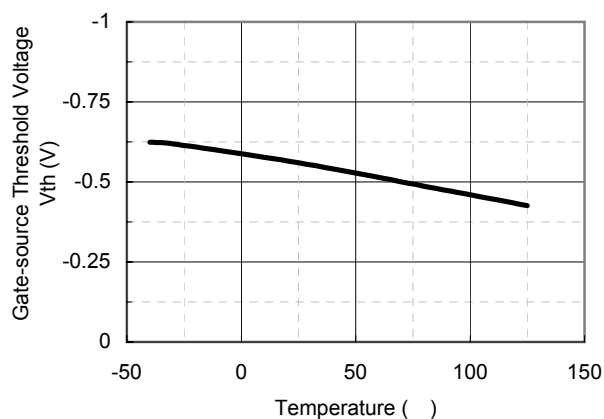


Technical Data (reference)

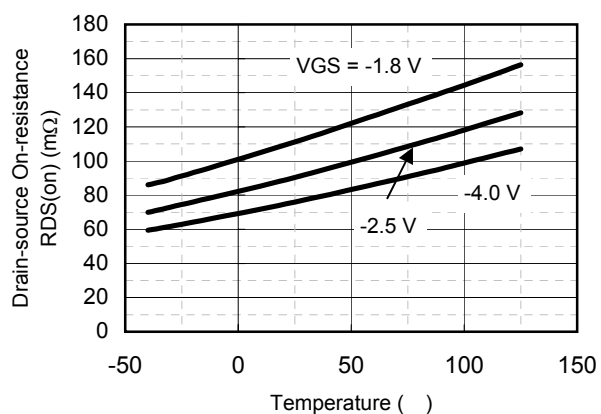


Technical Data (reference)

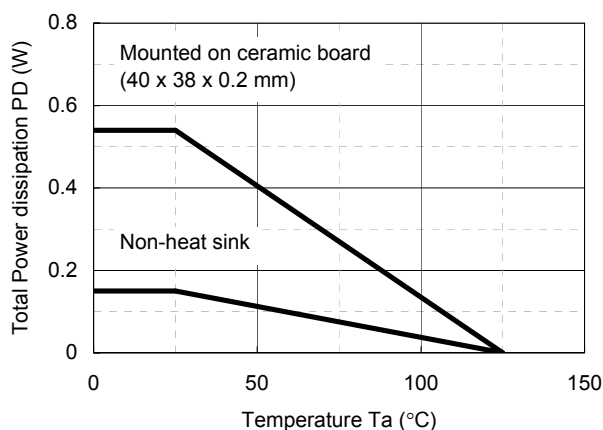
V_{th} - T_a



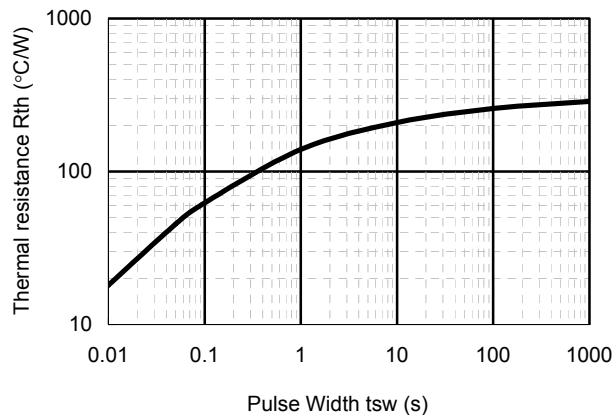
R_{DS(on)} - T_a



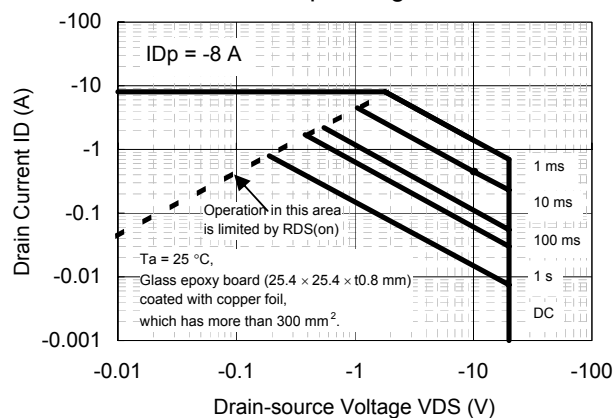
P_D - T_a



R_{th} - t_{sw}

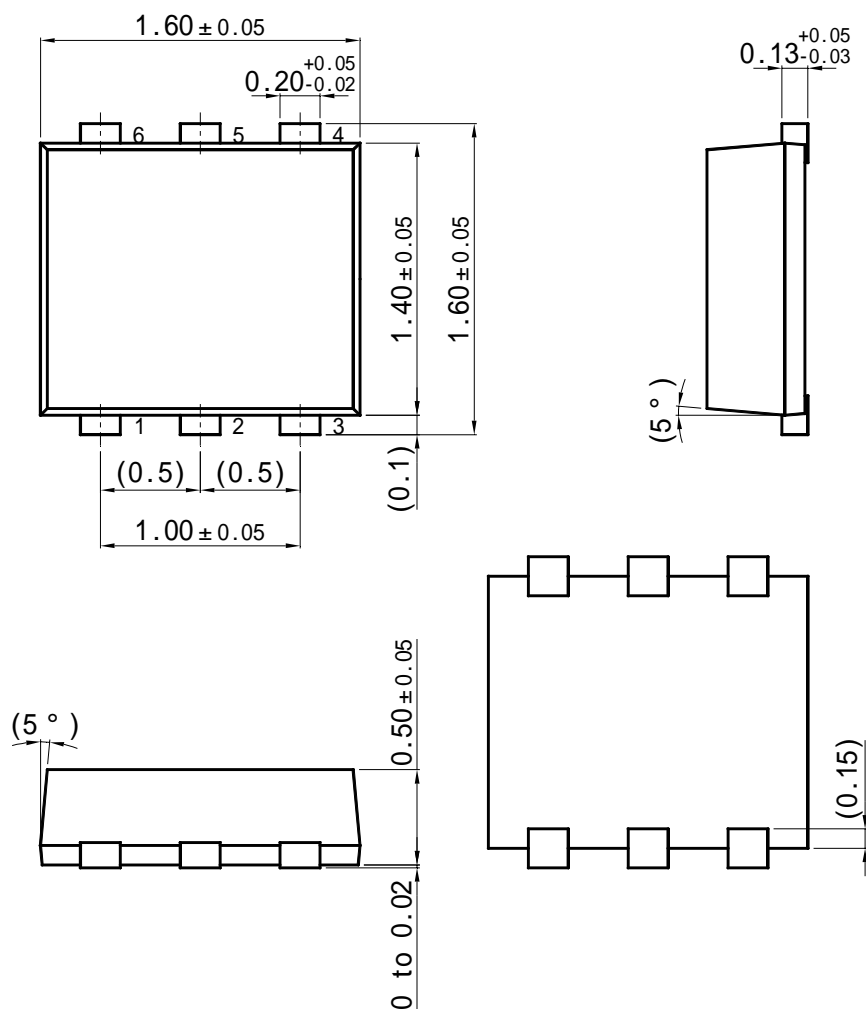


Safe Operating Area

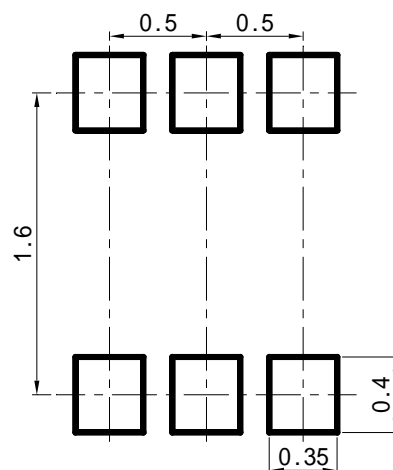


WSSMini6-F1

Unit: mm



■ Land Pattern (Reference) (Unit : mm)



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