

2SK4065

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Drain-to-Source Breakdown Voltage	V(BR)DSS	I _D =1mA, V _{GS} =0V	75			V
Zero-Gate Voltage Drain Current	I _{DSS}	V _{DS} =75V, V _{GS} =0V			1	μA
Gate-to-Source Leakage Current	I _{GSS}	V _{GS} =±16V, V _{DS} =0V			±10	μA
Cutoff Voltage	V _{GS(off)}	V _{DS} =10V, I _D =1mA	1.2		2.6	V
Forward Transfer Admittance	y _{fs}	V _{DS} =10V, I _D =50A	47	78		S
Static Drain-to-Source On-State Resistance	R _{DS(on)1}	I _D =50A, V _{GS} =10V		4.6	6.0	mΩ
	R _{DS(on)2}	I _D =50A, V _{GS} =4V		5.7	8.0	mΩ
Input Capacitance	C _{iss}	V _{DS} =20V, f=1MHz		12200		pF
Output Capacitance	C _{oss}			950		pF
Reverse Transfer Capacitance	C _{rss}			730		pF
Turn-ON Delay Time	t _{d(on)}			80		ns
Rise Time	t _r	See Fig.2		460		ns
Turn-OFF Delay Time	t _{d(off)}			930		ns
Fall Time	t _f			640		ns
Total Gate Charge	Q _g			220		nC
Gate-to-Source Charge	Q _{gs}	V _{DS} =35V, V _{GS} =10V, I _D =100A		40		nC
Gate-to-Drain "Miller" Charge	Q _{gd}			50		nC
Diode Forward Voltage	V _{SD}		I _S =100A, V _{GS} =0V		0.9	1.2

Fig.1 Avalanche Resistance Test Circuit

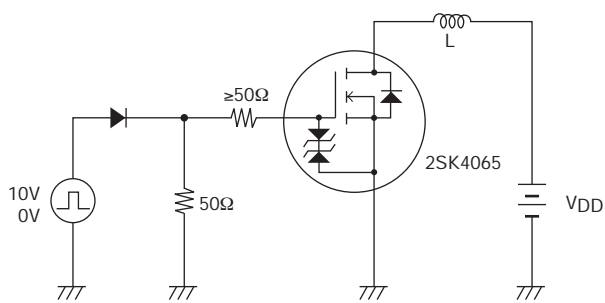
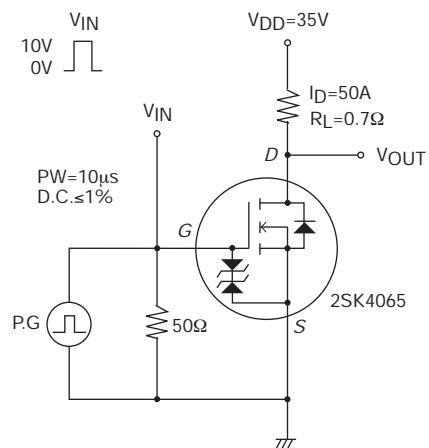
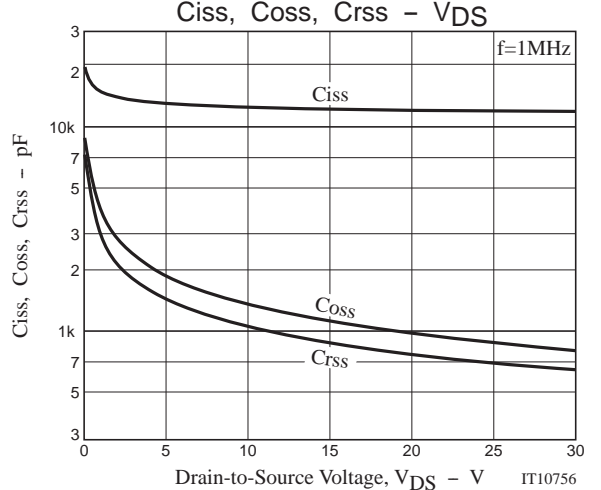
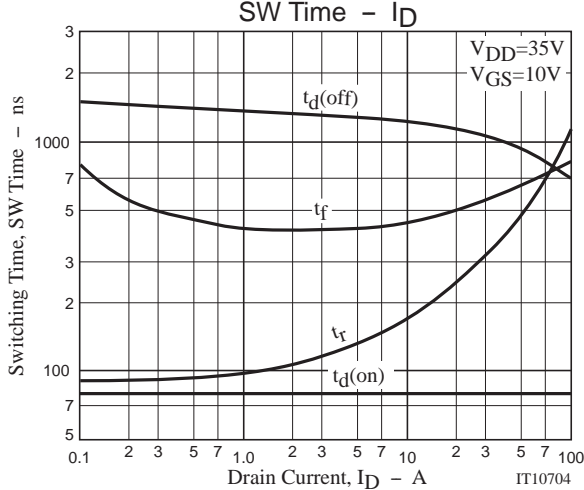
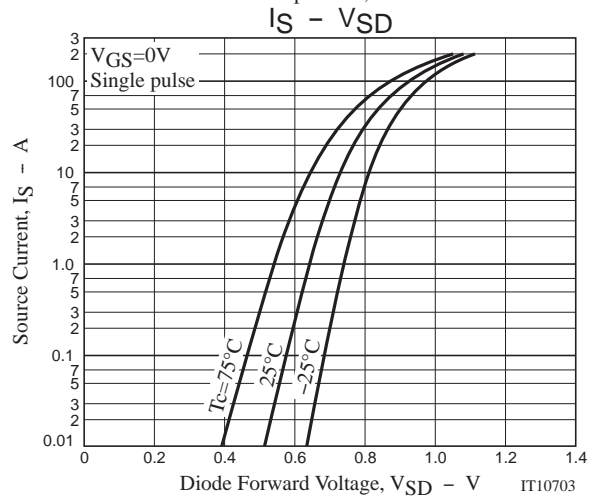
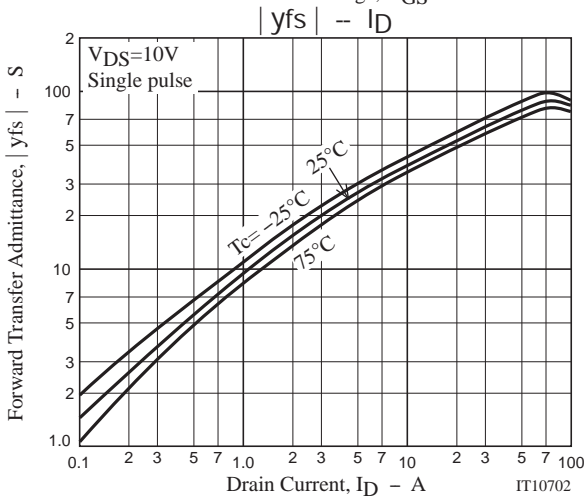
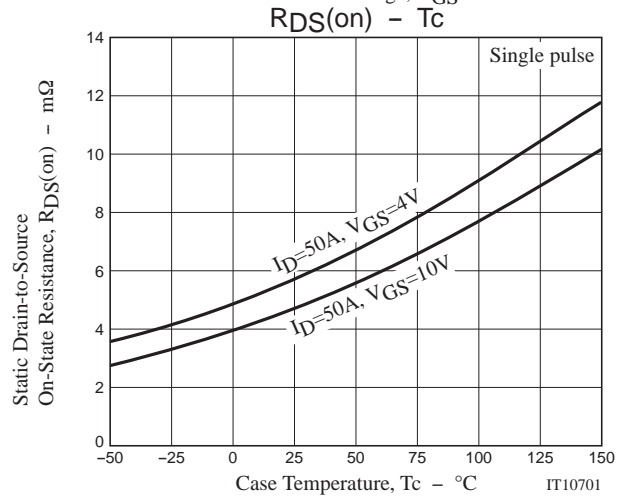
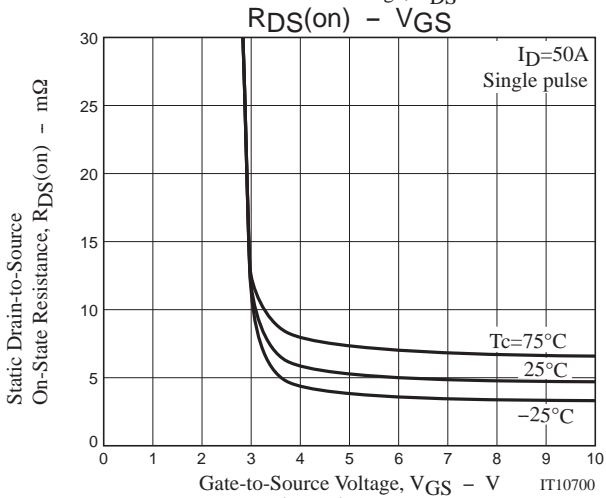
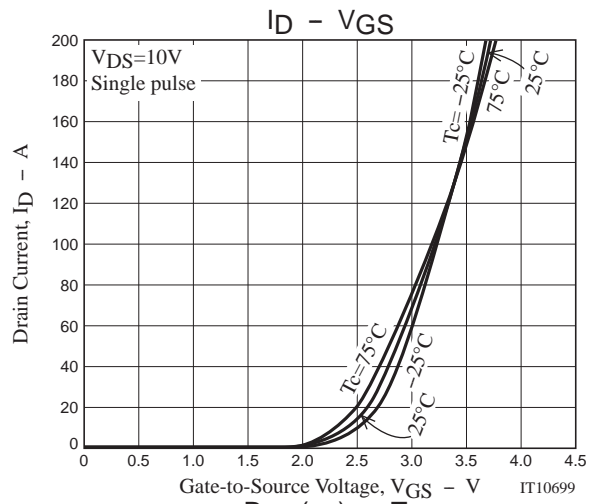
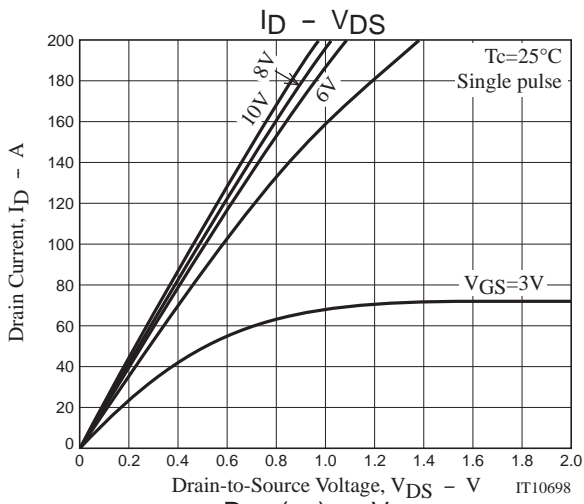


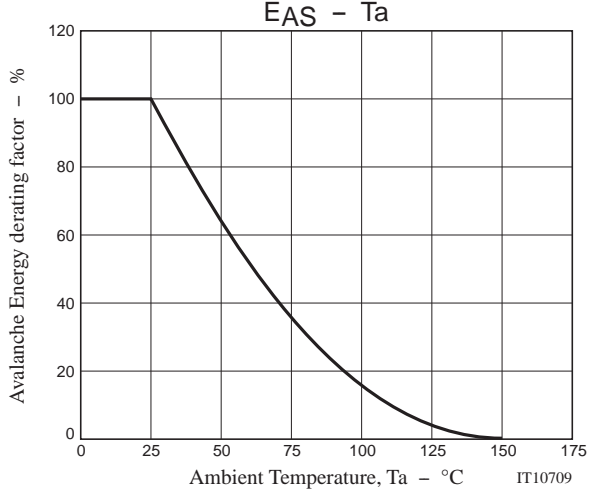
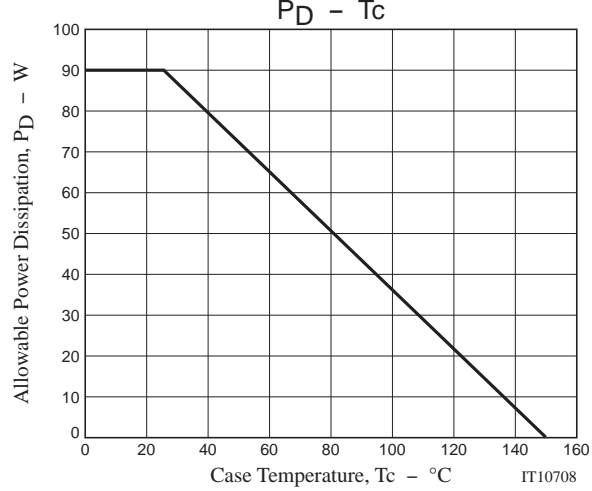
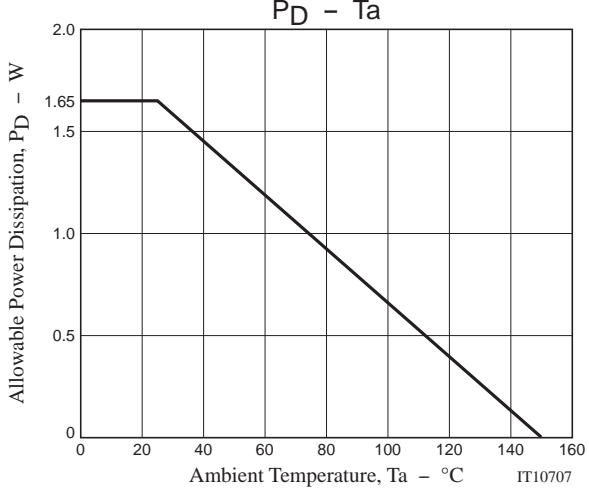
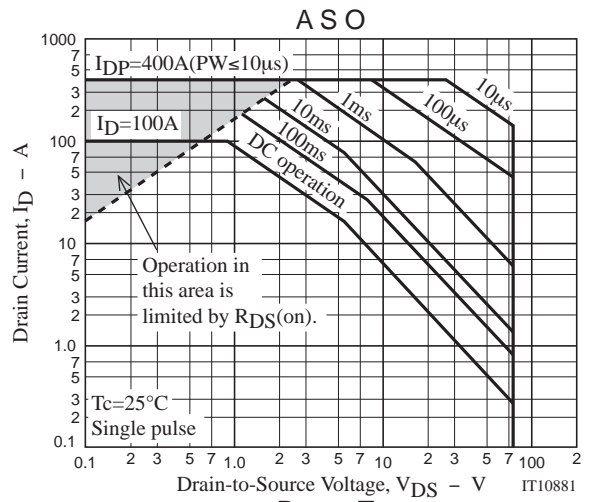
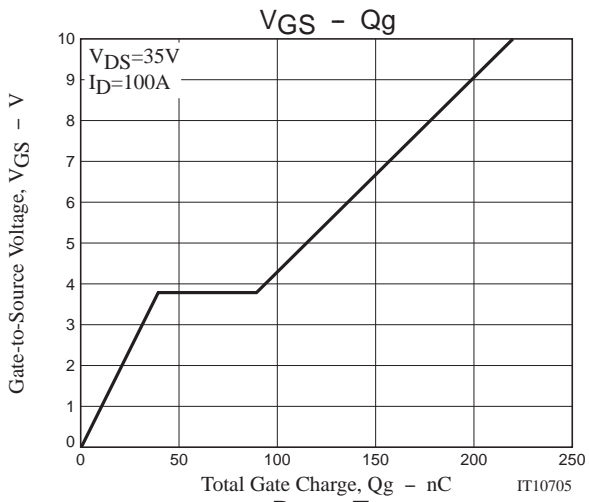
Fig.2 Switching Time Test Circuit



Ordering Information

Device	Package	Shipping	memo
2SK4065-DL-1E	TO-263-2L	800pcs./reel	Pb Free







Note on usage : Since the 2SK4065 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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