

2SK2778

External dimensions 1 FM20

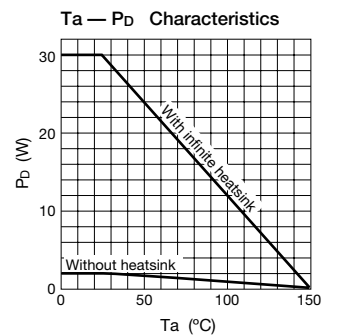
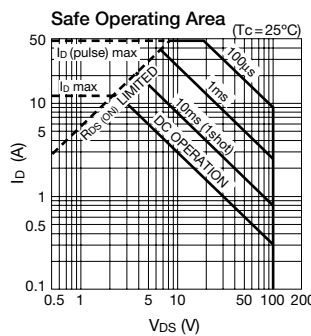
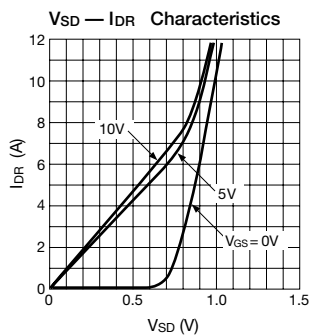
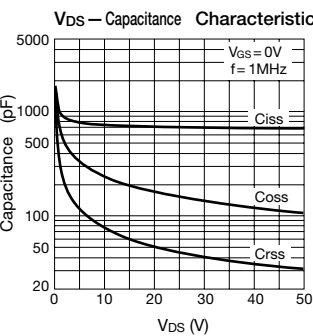
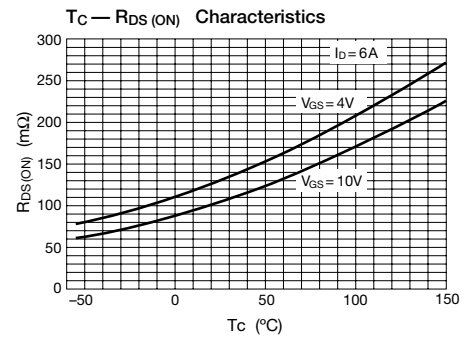
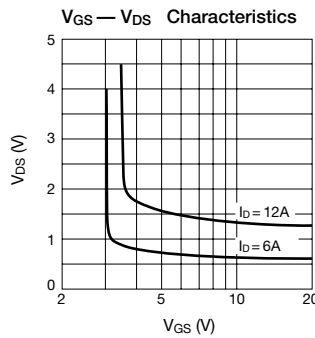
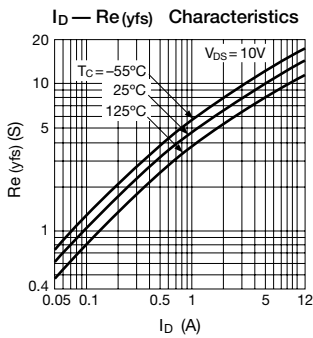
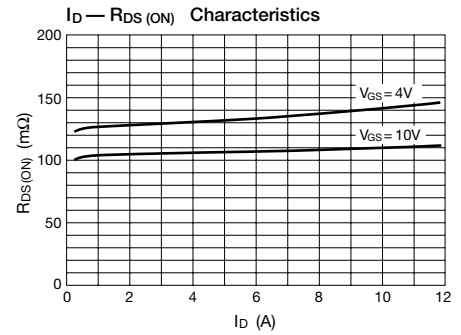
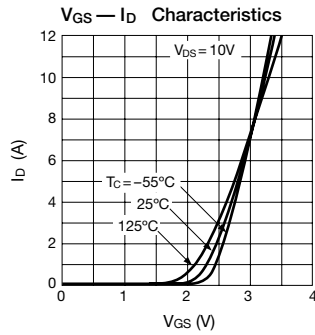
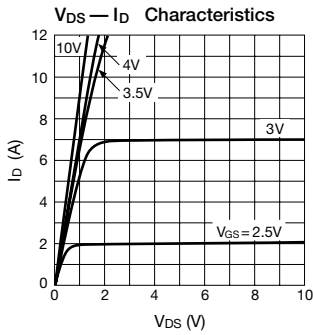
Absolute Maximum Ratings (Ta = 25°C)

Symbol	Ratings	Unit
V _{DSS}	100	V
V _{GSS}	±20	V
I _D	±12	A
I _D (pulse) *1	±48	A
P _D	30 (Tc = 25°C)	W
E _{AS} *2	70	mJ
I _{AS}	12	A
T _{ch}	150	°C
T _{stg}	-55 to +150	°C

*1: $PW \leq 100\mu s$, duty cycle $\leq 1\%$
 *2: $V_{DD} = 25V$, $L = 730\mu H$, $I_L = 12A$, unclamped, $R_G = 50\Omega$, See Figure 1 on Page 5.

Electrical Characteristics (Ta = 25°C)

Symbol	Ratings			Unit	Conditions
	min	typ	max		
V _(BR) DSS	100			V	I _D = 100μA, V _{GS} = 0V
I _{GSS}			±100	nA	V _{GS} = ±20V
I _{DSS}			100	μA	V _{DS} = 100V, V _{GS} = 0V
V _{TH}	1.0		2.0	V	V _{DS} = 10V, I _D = 250μA
Re (yfs)	7	11		S	V _{DS} = 10V, I _D = 6A
R _{DS} (on)		105	175	mΩ	V _{GS} = 10V, I _D = 6A
		130	220	mΩ	V _{GS} = 4V, I _D = 6A
C _{iss}		740		pF	V _{DS} = 10V, f = 1.0MHz, V _{GS} = 0V
C _{oss}		240		pF	
C _{rss}		75		pF	
t _d (on)		15		ns	I _D = 6A, V _{DD} = 50V, R _L = 8.3Ω, V _{GS} = 10V, See Figure 2 on Page 5.
t _r		55		ns	
t _d (off)		60		ns	
t _f		20		ns	
V _S D		1.0	1.5	V	I _S D = 12A, V _{GS} = 0V



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