MOS FET 2SK3800

Absolute Maximum Ratings (Ta=25°C)

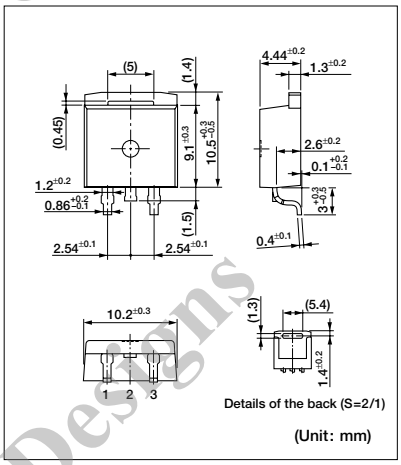
Symbol	Ratings	Unit
V_{DSS}	40	V
V_{GSS}	±20	V
I_D	±70	A
$I_{D\ (pulse)}$*1	±140	A
P_D	80 (Tc=25°C)	W
EAS*2	400	mJ
Tch	150	°C
Tstg	–40 to +150	°C

* 1: $P_W \leqq 100\mu s$, duty cycle $\leqq 1\%$
* 2: $V_{DD}=20V$, L=1mH, $I_L=20A$, unclamped, $R_G=50\Omega$

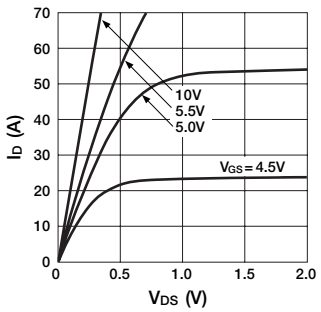
Electrical Characteristics (Ta=25°C)

Symbol	Test Conditions	Ratings min	Ratings typ	Ratings max	Unit
$V_{(BR)\ DSS}$	$I_D=100\mu A$, $V_{GS}=0V$	40			V
I_{GSS}	$V_{GS}=\pm 15V$			±10	μA
I_{DSS}	$V_{DS}=40V$, $V_{GS}=0V$			100	μA
V_{TH}	$V_{DS}=10V$, $I_D=1mA$	2.0	3.0	4.0	V
$R_{e\ (yfs)}$	$V_{DS}=10V$, $I_D=35A$	30	50		S
$R_{DS\ (ON)}$	$V_{GS}=10V$, $I_D=35A$		5.0	6.0	mΩ
Ciss	$V_{DS}=10V$, f=1.0MHz, $V_{GS}=0V$		5100		pF
Coss			1200		pF
Crss			860		pF
$t_{d\ (on)}$	$I_D=35A$, $V_{DD}=20V$, $R_G=22\Omega$, $R_L=0.57\Omega$, $V_{GS}=10V$		100		ns
t_r			100		ns
$t_{d\ (off)}$			300		ns
t_f			130		ns
V_{SD}	$I_{SD}=50A$, $V_{GS}=0V$		0.9	1.2	V
t_{rr}	$I_{SD}=25A$, $di/dt=50A/\mu s$		110		ns
$R_{th\ (ch-c)}$				1.56	°C/W
$R_{th\ (ch-a)}$				62.5	°C/W

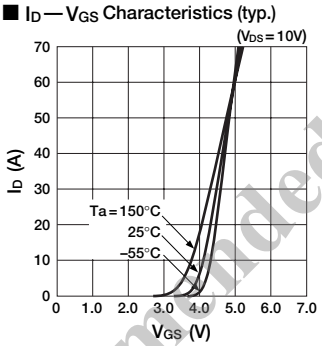
External Dimensions TO220S



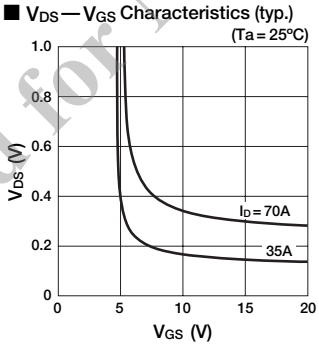
■ I_D — V_{DS} Characteristics (typ.)



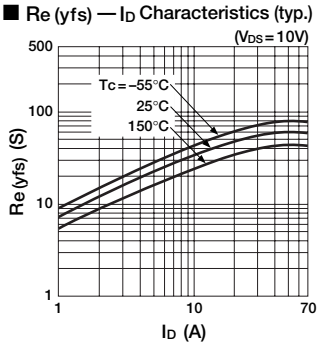
■ I_D — V_{GS} Characteristics (typ.)



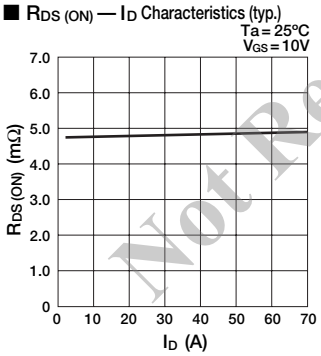
■ V_{DS} — V_{GS} Characteristics (typ.)



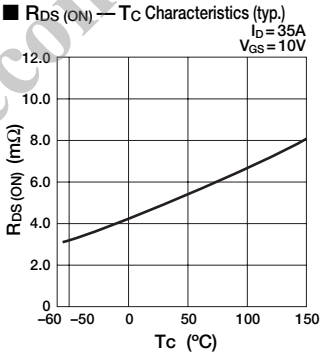
■ R_e (yfs) — I_D Characteristics (typ.)



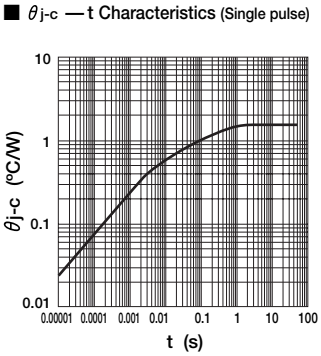
■ $R_{DS\ (ON)}$ — I_D Characteristics (typ.)



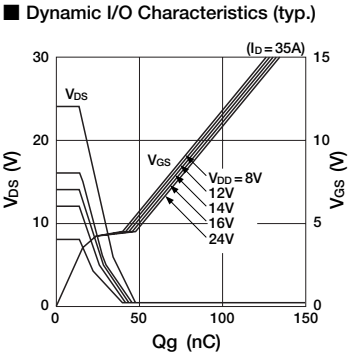
■ $R_{DS\ (ON)}$ — T_C Characteristics (typ.)



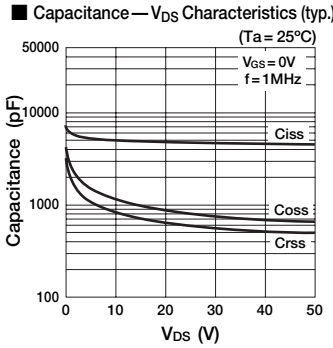
■ $\theta_{j\text{-}c}$ — t Characteristics (Single pulse)



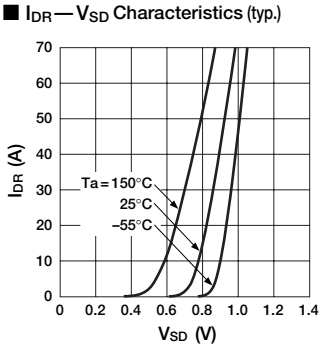
■ Dynamic I/O Characteristics (typ.)



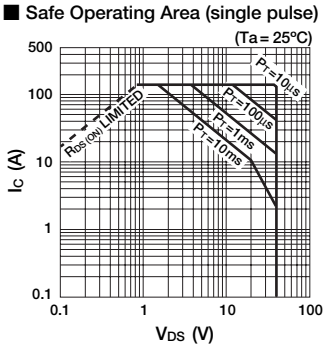
■ Capacitance — V_{DS} Characteristics (typ.)



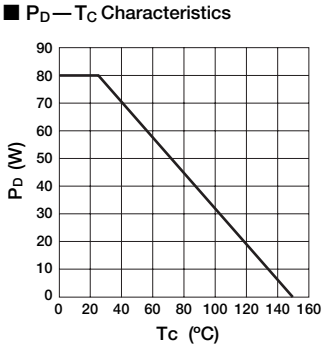
■ I_{DR} — V_{SD} Characteristics (typ.)



■ Safe Operating Area (single pulse)



■ P_D — T_C Characteristics



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