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External dimensions 1 ..... FM20

Absolute Maximum Ratings (Ta = 25°C)

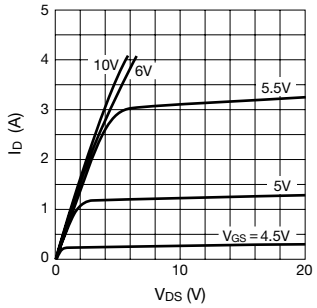
Symbol	Ratings	Unit
V_{DSS}	500	V
V_{GSS}	±20	V
I_D	±4.0	A
$I_{D\ (pulse)}$	±16 (Tch ≦150°C)	A
P_D	35 (Tc = 25°C)	W
E_{AS} *	260	mJ
Tch	150	°C
Tstg	–55 to +150	°C

*: V_{DD} = 50V, L = 28mH, I_L = 4.0A, unclamped, See Figure 1 on Page 5.

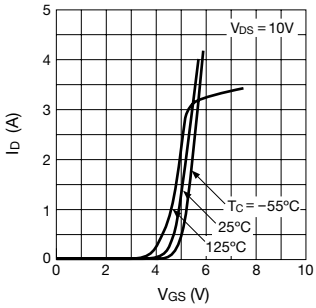
Electrical Characteristics (Ta = 25°C)

Symbol	Ratings min	Ratings typ	Ratings max	Unit	Conditions
$V_{(BR)\ DSS}$	500			V	I_D = 250μA, V_{GS} = 0V
I_{GSS}			±500	nA	V_{GS} = ±20V
I_{DSS}			250	μA	V_{DS} = 500V, V_{GS} = 0V
V_{TH}	2.0		4.0	V	V_{DS} = 10V, I_D = 250μA
$Re_{(yfs)}$	2.4	3.7		S	V_{DS} = 10V, I_D = 2.0A
$R_{DS\ (on)}$		1.3	1.5	Ω	V_{GS} = 10V, I_D = 2.0A
Ciss		610		pF	V_{DS} = 25V, f = 1.0MHz, V_{GS} = 0V
Coss		91		pF	
t_{on}		50		ns	I_D = 2.0A, V_{DD} = 250V, V_{GS} = 10V, See Figure 2 on Page 5.
t_{off}		120		ns	

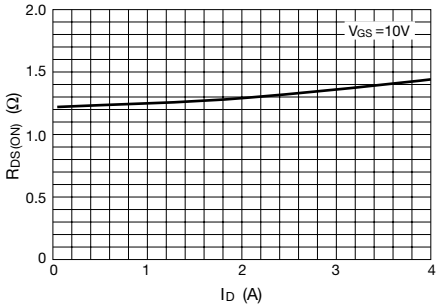
V_{DS} — I_D Characteristics



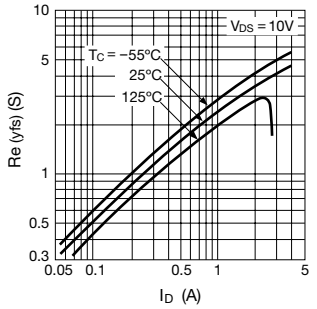
V_{GS} — I_D Characteristics



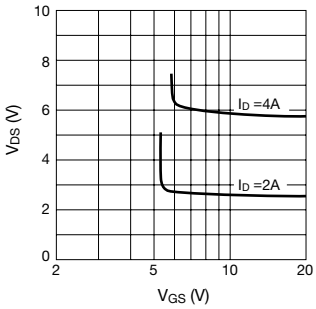
I_D — $R_{DS\ (ON)}$ Characteristics



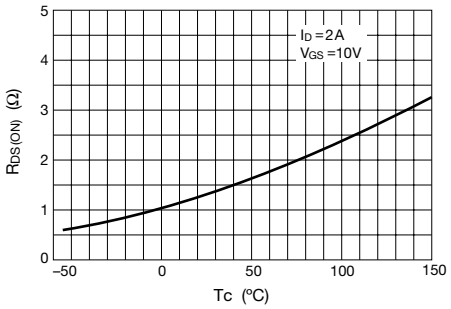
I_D — $Re_{(yfs)}$ Characteristics



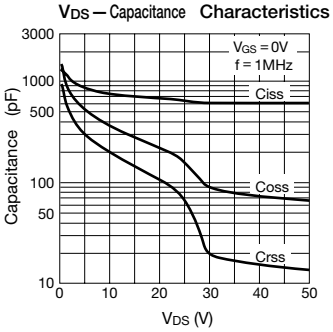
V_{GS} — V_{DS} Characteristics



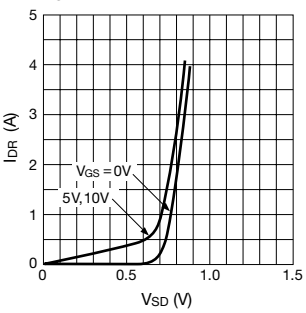
T_C — $R_{DS\ (ON)}$ Characteristics



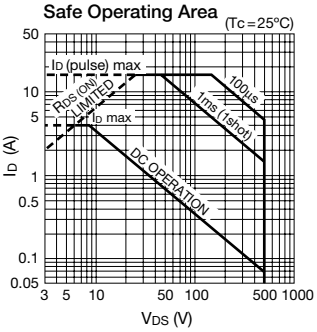
V_{DS} — Capacitance Characteristics



V_{SD} — I_{DR} Characteristics



Safe Operating Area (Tc = 25°C)



Ta — P_D Characteristics

