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MOS FET FKV660 (under development)

Absolute Maximum Ratings (Ta=25ºC)

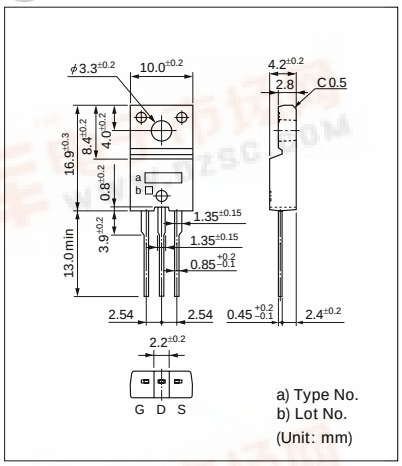
Symbol	Ratings	Unit
V_{DSS}	60	V
V_{GSS}	±20	V
I_D	±50	A
$I_{D\,(pulse)}$*	±150	A
P_D	40 (Tc=25ºC)	W
Tch	150	ºC
Tstg	–55 to +150	ºC

* $P_W \leqq 100\mu s$, duty $\leqq 1\%$

Electrical Characteristics (Ta=25ºC)

Symbol	Test Conditions	Ratings min	Ratings typ	Ratings max	Unit
$V_{(BR)\,DSS}$	$I_D = 100\mu A$, $V_{GS} = 0V$	60			V
I_{GSS}	$V_{GS} = +20V$			+10	µA
	$V_{GS} = -20V$			–5	
I_{DSS}	$V_{DS} = 60V$, $V_{GS} = 0V$			100	µA
V_{TH}	$V_{DS} = 10V$, $I_D = 250\mu A$	1.0		2.0	V
$R_{e\,(yfs)}$	$V_{DS} = 10V$, $I_D = 25A$	20.0			S
$R_{DS\,(ON)}$	$V_{GS} = 10V$, $I_D = 25A$		11	14	mΩ
Ciss	$V_{DS} = 10V$, f = 1.0MHz, $V_{GS} = 0V$		2000		pF
Coss			900		pF
Crss			100		pF
$t_{d\,(on)}$	$I_D = 25A$, $V_{DD} \fallingdotseq 12V$, $R_L = 0.48\Omega$, $V_{GS} = 10V$		To be defined		ns
t_r					ns
$t_{d\,(off)}$					ns
t_f					ns
V_{SD}	$I_{SD} = 50A$, $V_{GS} = 0V$		1.0	1.5	V

External Dimensions FM20 (full-mold)



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