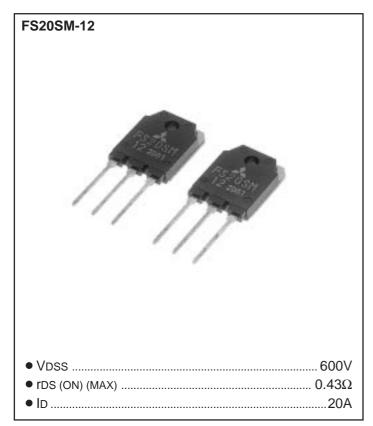
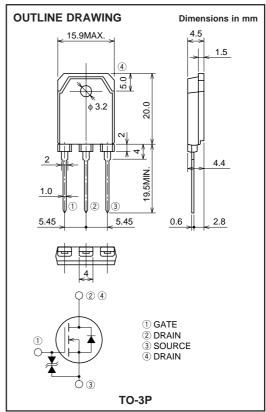
HIGH-SPEED SWITCHING USE





APPLICATION

SMPS, DC-DC Converter, battery charger, power supply of printer, copier, HDD, FDD, TV, VCR, personal computer etc.

MAXIMUM RATINGS (Tc = 25°C)

Symbol	Parameter	Conditions	Ratings	Unit
VDSS	Drain-source voltage	VGS = 0V	600	V
Vgss	Gate-source voltage	VDS = 0V	±30	V
ID	Drain current		20	Α
IDM	Drain current (Pulsed)		60	А
PD	Maximum power dissipation		275	W
Tch	Channel temperature		−55 ~ +150	°C
Tstg	Storage temperature		−55 ~ +150	°C
_	Weight	Typical value	4.8	g



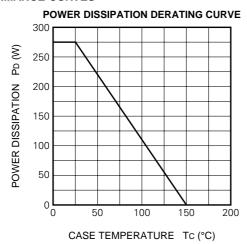
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HIGH-SPEED SWITCHING USE

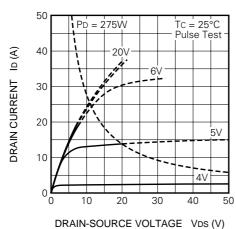
ELECTRICAL CHARACTERISTICS (Tch = 25°C)

Symbol	Parameter	Test conditions	Limits			Unit
			Min.	Тур.	Max.	Uilli
V (BR) DSS	Drain-source breakdown voltage	ID = 1mA, VGS = 0V	600	_	_	V
V (BR) GSS	Gate-source breakdown voltage	$IG = \pm 100 \mu A$, $VDS = 0V$	±30	_	_	V
Igss	Gate-source leakage current	$VGS = \pm 25V$, $VDS = 0V$	_	_	±10	μΑ
IDSS	Drain-source leakage current	VDS = 600V, VGS = 0V	_	_	1	mA
VGS (th)	Gate-source threshold voltage	ID = 1mA, VDS = 10V	2	3	4	V
rDS (ON)	Drain-source on-state resistance	ID = 10A, VGS = 10V	_	0.33	0.43	Ω
VDS (ON)	Drain-source on-state voltage	ID = 10A, VGS = 10V	_	3.3	4.3	V
yfs	Forward transfer admittance	ID = 10A, VDS = 10V	8.0	13	_	S
Ciss	Input capacitance	VDS = 25V, VGS = 0V, f = 1MHz	_	2800	_	pF
Coss	Output capacitance		_	350	_	pF
Crss	Reverse transfer capacitance		_	50	_	pF
td (on)	Turn-on delay time	- VDD = 200V, ID = 10A, VGS = 10V, RGEN = RGS = $50Ω$	_	50	_	ns
tr	Rise time		_	85	_	ns
td (off)	Turn-off delay time		_	350	_	ns
tf	Fall time		_	100	_	ns
VsD	Source-drain voltage	Is = 10A, VGS = 0V	_	1.5	2.0	V
Rth (ch-c)	Thermal resistance	Channel to case	_	_	0.45	°C/W

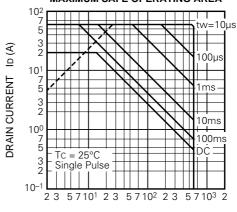
PERFORMANCE CURVES





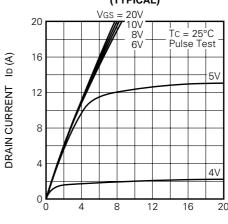


MAXIMUM SAFE OPERATING AREA



DRAIN-SOURCE VOLTAGE VDS (V)

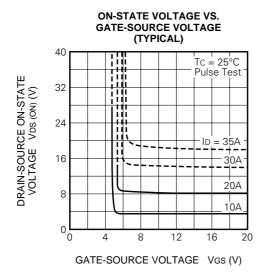
OUTPUT CHARACTERISTICS (TYPICAL)

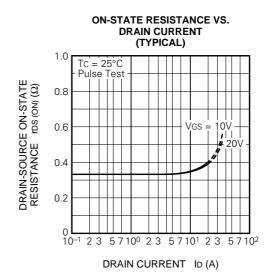


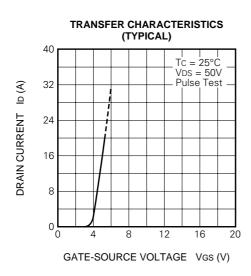
DRAIN-SOURCE VOLTAGE VDS (V)

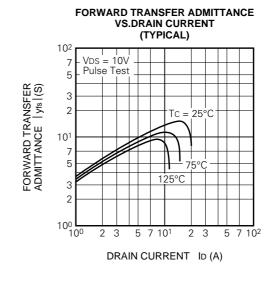


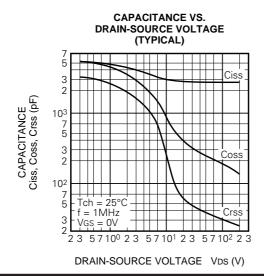
HIGH-SPEED SWITCHING USE

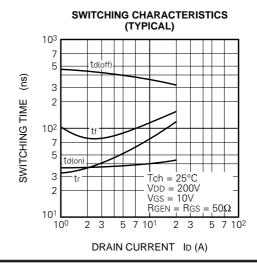






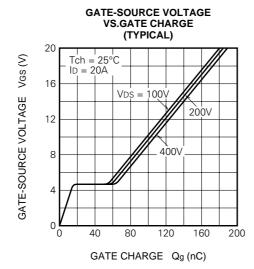


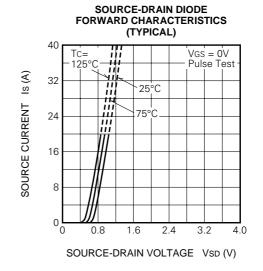


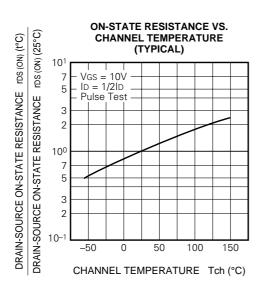


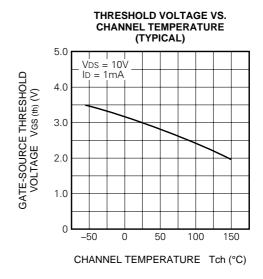


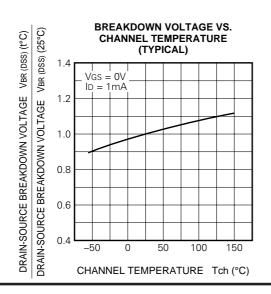
HIGH-SPEED SWITCHING USE

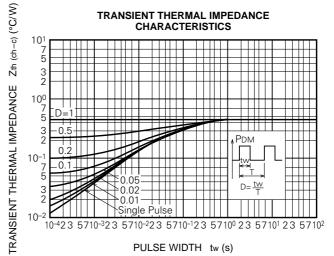












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