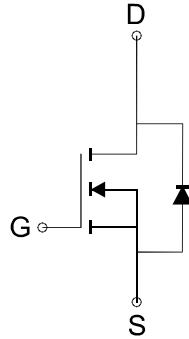
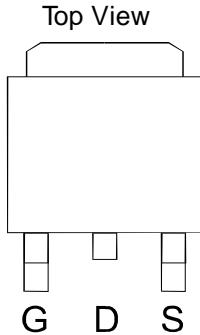


N-Channel 60-V (D-S) MOSFET
GENERAL DESCRIPTION

The ME35N06-G is the N-Channel logic enhancement mode power field effect transistors, using high cell density, DMOS trench technology. This high density process is especially tailored to minimize on state resistance. These devices are particularly suited for low voltage application such as cellular phone, notebook computer power management and other battery powered circuits, and low in-line power loss that are needed in a very small outline surface mount package.

PIN CONFIGURATION

(TO-252-3L)



N-Channel MOSFET

Ordering Information: ME35N06/ME35N06-G (Green product-Halogen free)

Absolute Maximum Ratings ($T_c=25^\circ\text{C}$ Unless Otherwise Noted)

Parameter	Symbol	Maximum Ratings	Unit
Drain-Source Voltage	V_{DS}	60	V
Gate-Source Voltage	V_{GS}	± 20	V
Continuous Drain Current	I_D	25.4	A
$T_c=70^\circ\text{C}$		23.4	
Pulsed Drain Current	I_{DM}	101	A
Maximum Power Dissipation	P_D	33	W
$T_c=70^\circ\text{C}$		21	
Operating Junction Temperature	T_J	-55 to 150	$^\circ\text{C}$
Thermal Resistance-Junction to Case *	$R_{\theta JC}$	3.8	$^\circ\text{C}/\text{W}$

* The device mounted on 1in² FR4 board with 2 oz copper



N-Channel 60-V (D-S) MOSFET
Electrical Characteristics (TC =25°C Unless Otherwise Specified)

Symbol	Parameter	Limit	Min	Typ	Max	Unit
STATIC						
BVDSS	Drain-Source Breakdown Voltage	VGS=0V, ID=250 μA	60			V
VGS(th)	Gate Threshold Voltage	VDS=VGS, ID=250 μA	1		3	V
IGSS	Gate Leakage Current	VDS=0V, VGS=±20V			±100	nA
IQSS	Zero Gate Voltage Drain Current	VDS=48V, VGS=0V			1	μA
RDS(ON)	Drain-Source On-Resistance ^a	VGS=10V, ID= 20A		27	32	mΩ
		VGS=4.5V, ID= 16A		34	40	
VSD	Diode Forward Voltage	IS=1A, VGS=0V		0.7	1.2	V
DYNAMIC						
Qg	Total Gate Charge	VDS=30V, VGS=10V, ID=20A		23		nC
Qg	Total Gate Charge	VDS=30V, VGS=4.5V, ID=20A		12		
Qgs	Gate-Source Charge			4.8		
Qgd	Gate-Drain Charge			6.2		
Ciss	Input Capacitance	VDS=15V, VGS=0V, f=1MHz		885		pF
Coss	Output Capacitance			98		
Crss	Reverse Transfer Capacitance			30		
td(on)	Turn-On Delay Time	VDS=30V, RL =1.5Ω, VGEN=10V, RG=3Ω		12		ns
tr	Turn-On Rise Time			8		
td(off)	Turn-Off Delay Time			43		
tf	Turn-Off Fall Time			4		

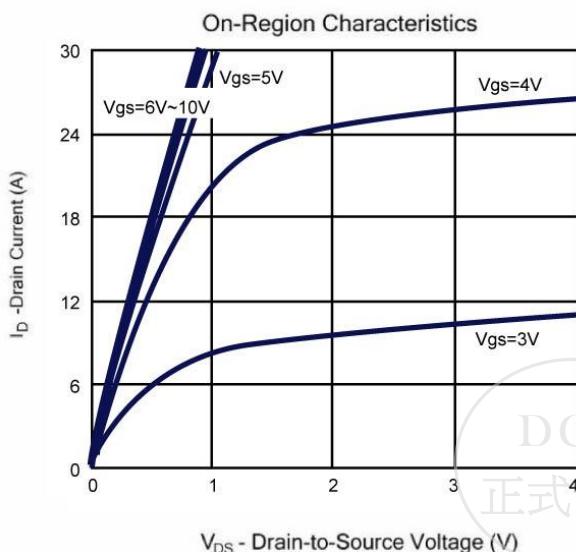
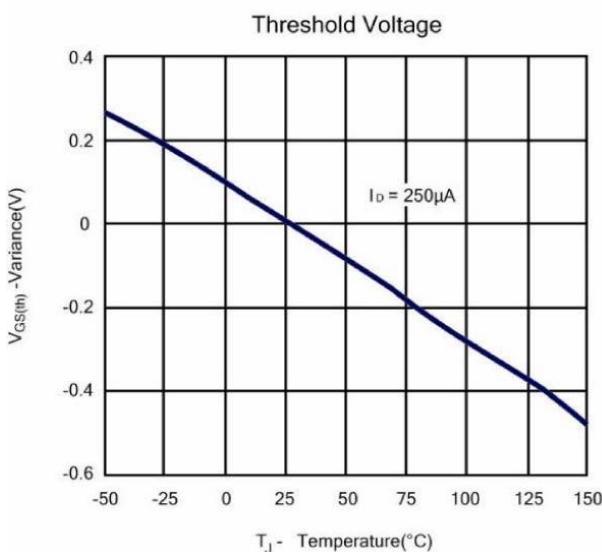
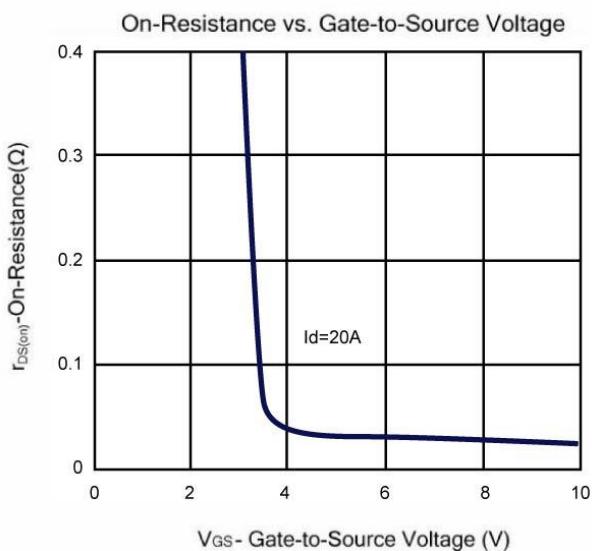
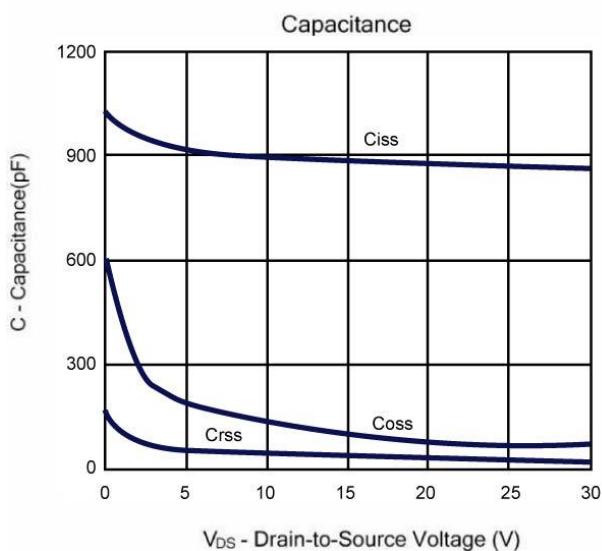
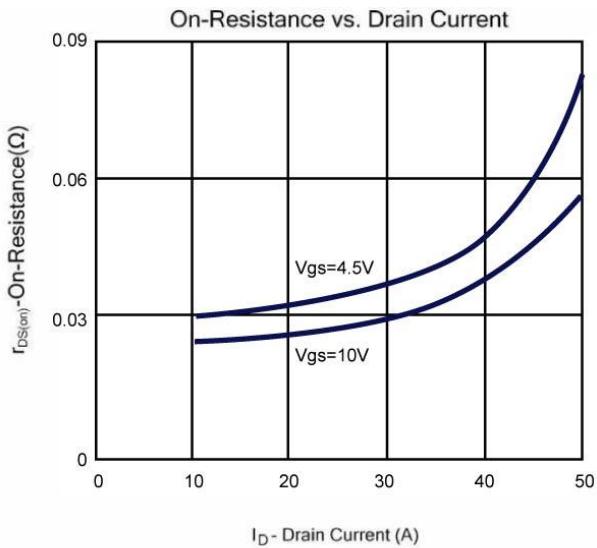
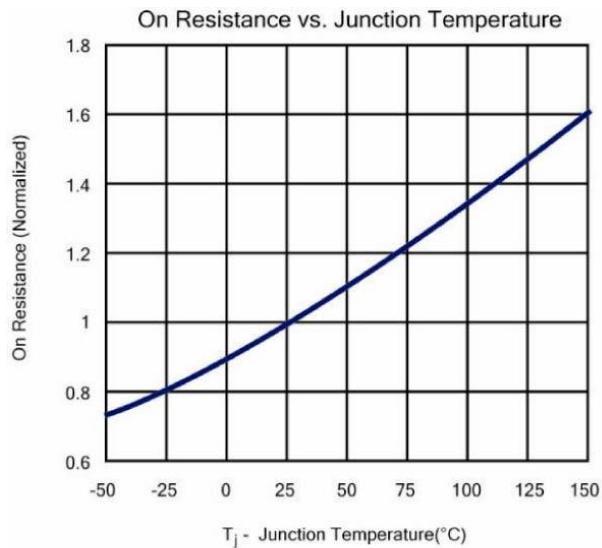
Notes: a. Pulse test: pulse width \leq 300us, duty cycle \leq 2%, Guaranteed by design, not subject to production testing.

b. Matsuki Electric/ Force mos reserves the right to improve product design, functions and reliability without notice.



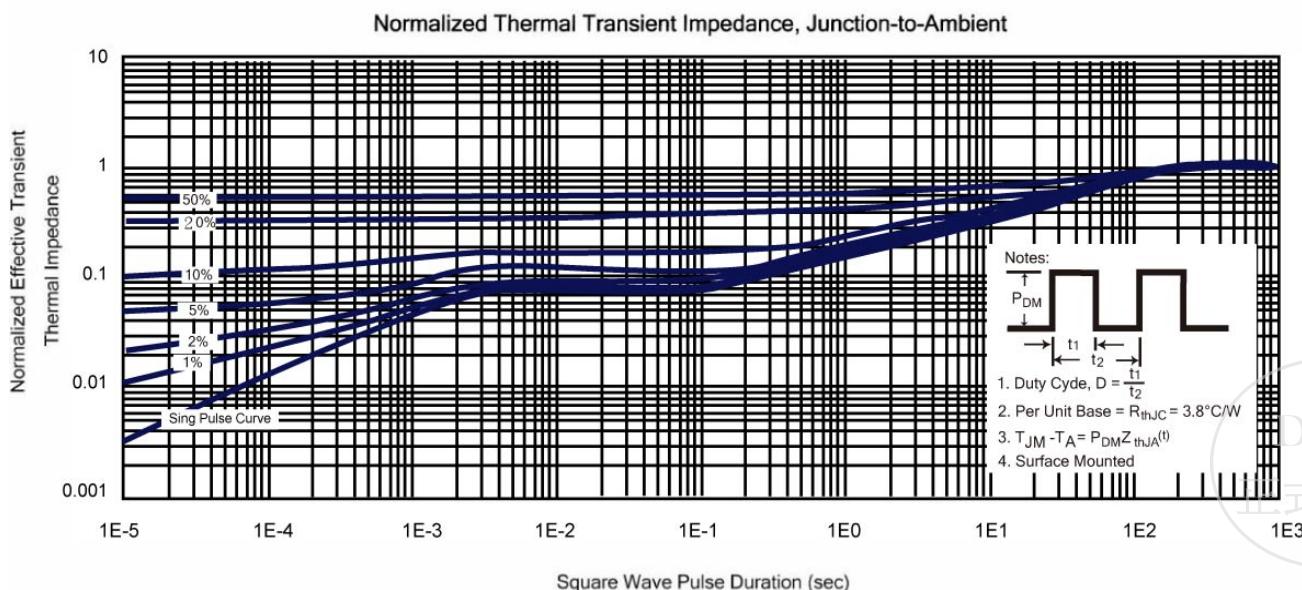
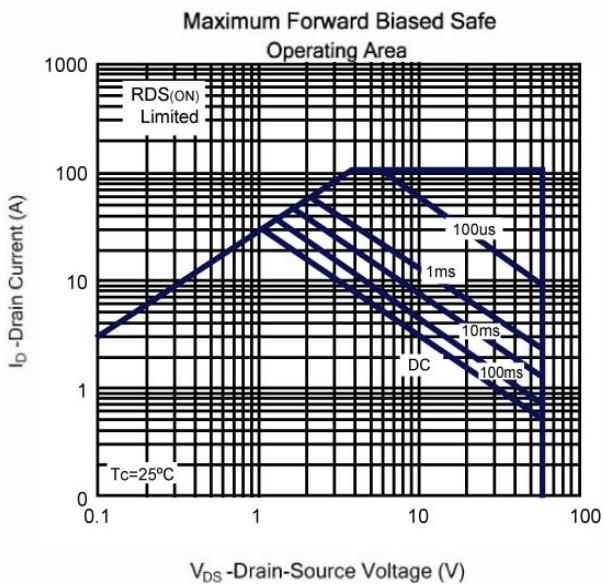
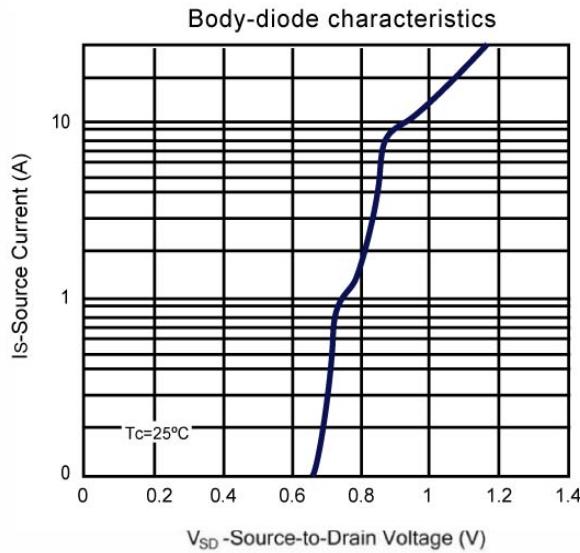
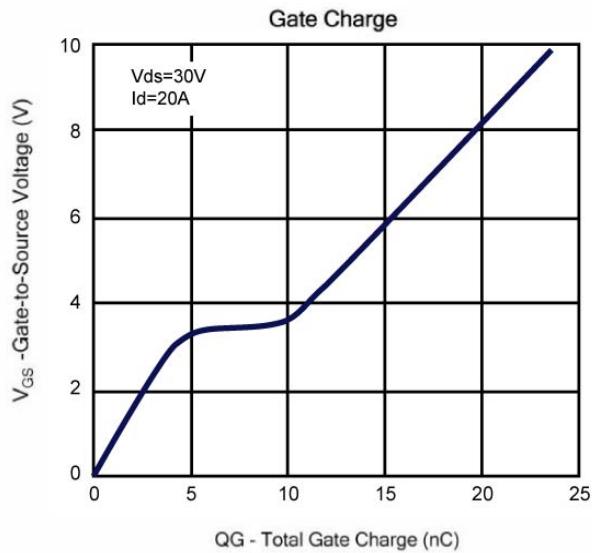
N-Channel 60-V (D-S) MOSFET

Typical Characteristics (T_J = 25°C Noted)

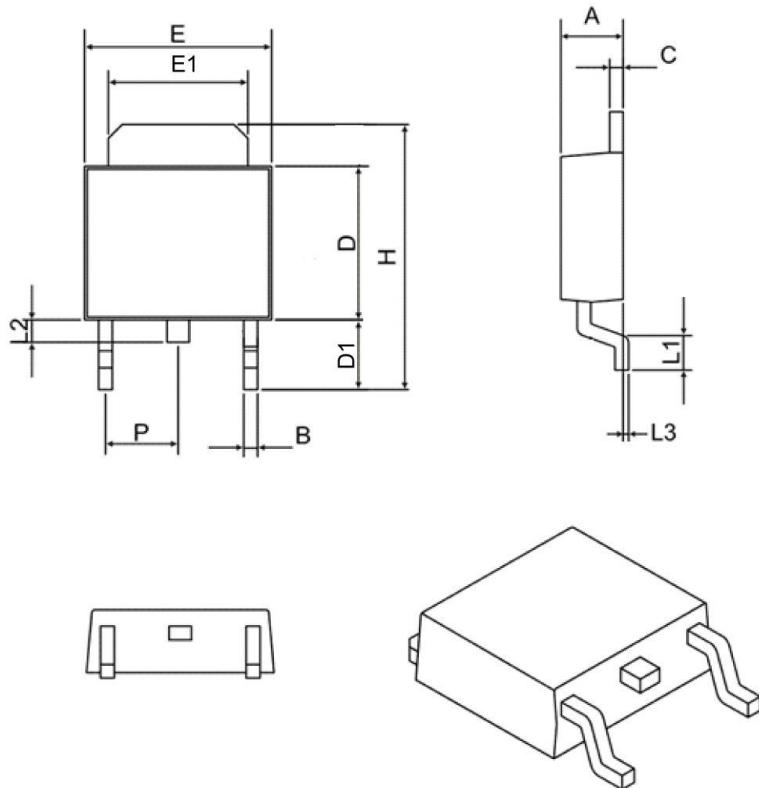


N-Channel 60-V (D-S) MOSFET

Typical Characteristics ($T_J = 25^\circ\text{C}$ Noted)



TO252-3L Package Outline



SYMBOL	MIN	MAX
A	2.10	2.50
B	0.40	0.90
C	0.40	0.90
D	5.30	6.30
D1	2.20	2.90
E	6.30	6.75
E1	4.80	5.50
L1	0.90	1.80
L2	0.50	1.10
L3	0.00	0.20
H	8.90	10.40
P	2.30 BSC	



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