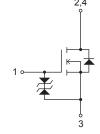
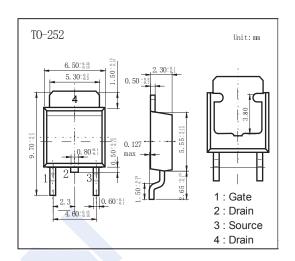
N-Channel Enhancement MOSFET NDT35N06

■ Features

- VDS (V) = 60V
- ID = 35 A
- RDS(ON) < 23m Ω (VGS = 10V)
- RDS(ON) < 33m Ω (VGS = 4.5V)
- RDS(ON) < 37m Ω (VGS = 4V)





■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit	
Drain-Source Voltage	VDS	60	V	
Gate-Source Voltage	Vgs	±20		
Continuous Drain Current	lo	35		
Pulsed Drain Current (Note.1)	IDP	105	Α	
Avalanche Current (Note.2)	lav	18		
Avalanche Energy (Single Pulse) (Note.3)	Eas	19	mJ	
Power Dissipation Tc=25°C	Pb	40	W	
Junction Temperature	TJ	150	°C	
Storage Temperature Range	Tstg	-55 to 150		

Note.1 :PW \leqslant 10 us, duty cycle \leqslant 1%

Note.2 :L $\!\!\!\leq\! 100 \mu H,$ Single pulse

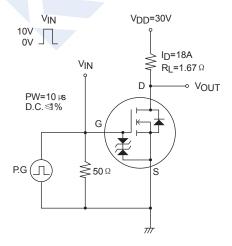
Note.3 :VDD=10V, L=100 μ H, Iav=18A

N-Channel Enhancement MOSFET NDT35N06

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Drain-Source Breakdown Voltage	VDSS	ID=1mA, VGS=0V	60			V
Zero Gate Voltage Drain Current	IDSS	VDS=60V, VGS=0V			1	μА
Gate-Body Leakage Current	Igss	VDS=0V, VGS=±16V			±10	
Cutoff Voltage	VGS(off)	VDS=10V , ID=1mA	1.2		2.6	V
Forward Transfer Admittance	Yfs	Vps=10V , lp=18A		35		S
Static Drain-Source On-Resistance	RDS(On)1	Vgs=10V, ID=18A		17	23	mΩ
	RDS(On)2	Vgs=4.5V, ID=9A		23	33	
	RDS(On)3	Vgs=4.0V, ID=5A		25	37	
Input Capacitance	Ciss			1820		pF
Output Capacitance	Coss	Vgs=0V, Vds=20V, f=1MHz		150		
Reverse Transfer Capacitance	Crss			100		
Total Gate Charge	Qg			34.5		nC
Gate Source Charge	Qgs	Vgs=10V, Vps=30V, Ip=35A		6.5		
Gate Drain Charge	Qgd			6.8		
Turn-On DelayTime	td(on)			16		ns
Turn-On Rise Time	tr	See specified Test Circuit		110		
Turn-Off DelayTime	td(off)	See specified Test Circuit		125		
Turn-Off Fall Time	tr			87		
Maximum Body-Diode Continuous Current	Is				35	Α
Diode Forward Voltage	VsD	Is=35A,VGS=0V		0.96	1.2	V

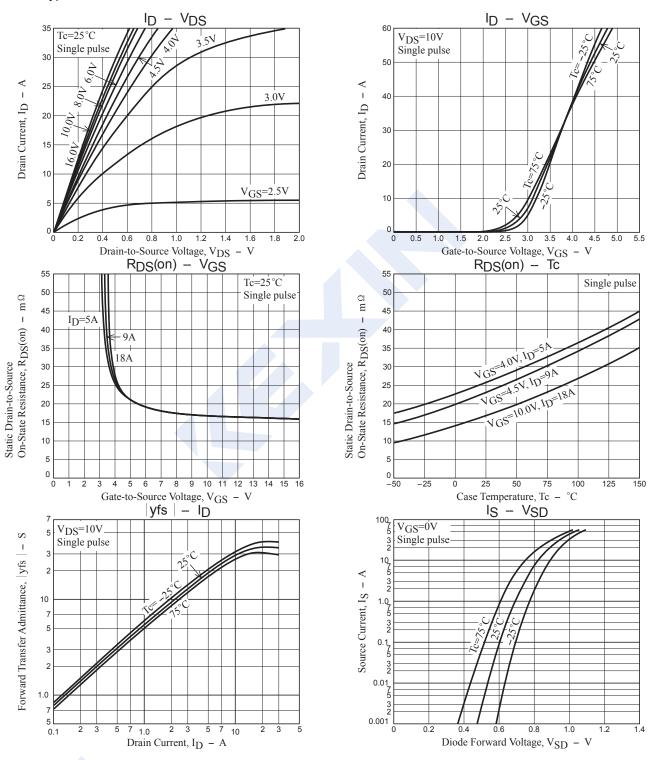
Switching Time Test Circuit:





N-Channel Enhancement MOSFET NDT35N06

■ Typical Characterisitics



N-Channel Enhancement MOSFET

NDT35N06

■ Typical Characterisitics

