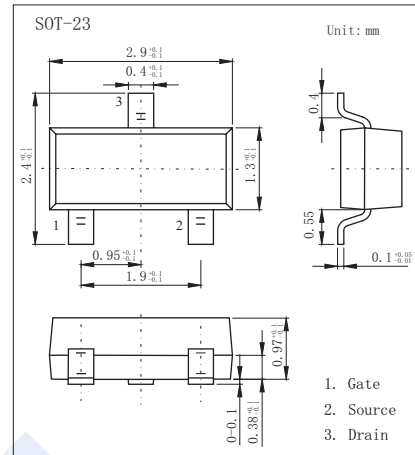
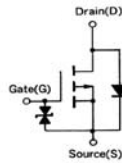


P-Channel MOSFET

NTR5105P

■ Features

- $V_{DS} = -60V$
- $I_D = -200mA$
- $R_{DS(ON)} < 10\Omega$ ($V_{GS} = -10V$)
- $R_{DS(ON)} < 15\Omega$ ($V_{GS} = -4V$)

■ Absolute Maximum Ratings $T_a = 25^\circ C$

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	-60	V
Gate-Source Voltage	V_{GS}	± 20	
Continuous Drain Current	I_D	-200	mA
Pulsed Drain Current (Note.1)	I_{DM}	-400	
Power Dissipation	P_D	200	mW
Junction Temperature	T_J	150	$^\circ C$
Junction Storage Temperature Range	T_{stg}	-55 to 150	

Note.1: $PW \leq 10ms$, Duty Cycle $\leq 50\%$

■ Electrical Characteristics $T_a = 25^\circ C$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	V_{DSS}	$I_D = -250\mu A$, $V_{GS} = 0V$	-60			V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS} = -60V$, $V_{GS} = 0V$			-1	μA
Gate-Body leakage current	I_{GSS}	$V_{DS} = 0V$, $V_{GS} = \pm 20V$			± 1	μA
Gate Cut off Voltage	$V_{GS(off)}$	$V_{DS} = -5V$, $I_D = -1\mu A$	-1.4		-2.4	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS} = -4V$, $I_D = -10mA$			15	Ω
		$V_{GS} = -10V$, $I_D = -10mA$			10	
Forward Transconductance	g_{FS}	$V_{DS} = -5V$, $I_D = -10mA$	20	45		mS
Input Capacitance	C_{iss}	$V_{GS} = 0V$, $V_{DS} = -5V$, $f = 1MHz$		27		pF
Output Capacitance	C_{oss}			21		
Reverse Transfer Capacitance	C_{rss}			3		
Turn-On DelayTime	$t_{d(on)}$	$V_{GS(on)} = -4V$, $V_{DS} = -5V$, $I_D = -10mA$, $R_L = 500\Omega$, $R_{GEN} = 10\Omega$		120		ns
Turn-On Rise Time	t_r			190		
Turn-Off DelayTime	$t_{d(off)}$			150		
Turn-Off Fall Time	t_f			180		

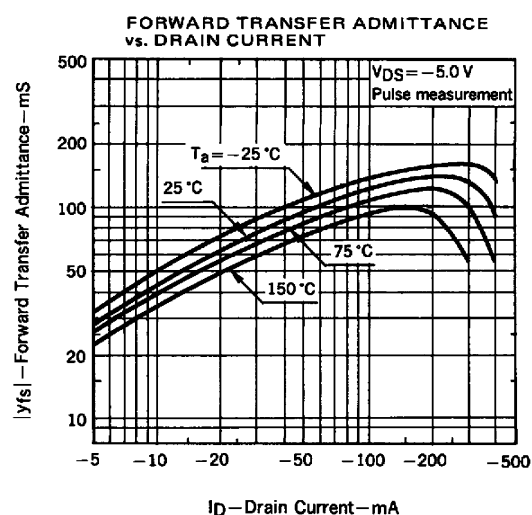
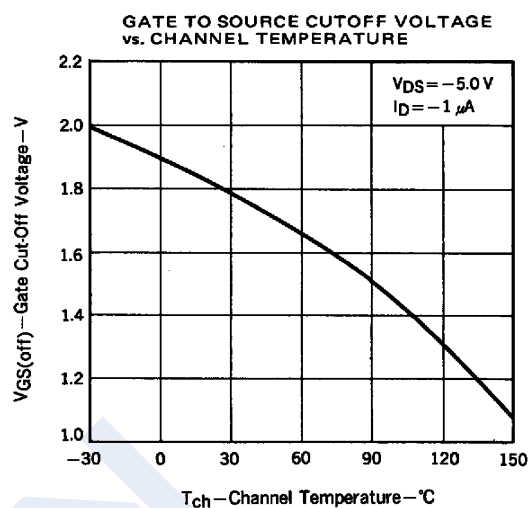
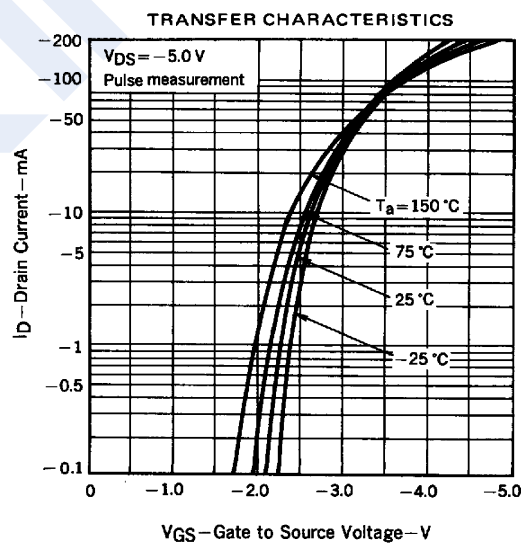
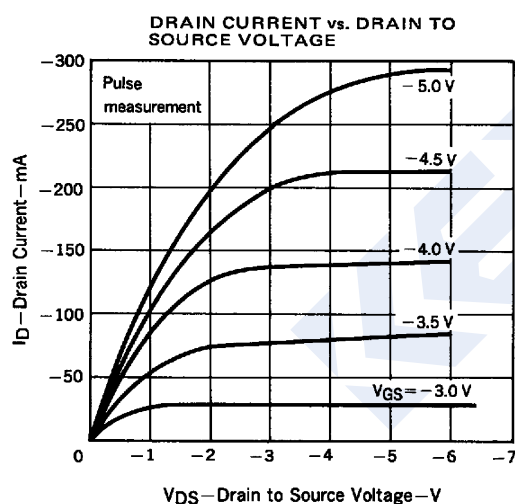
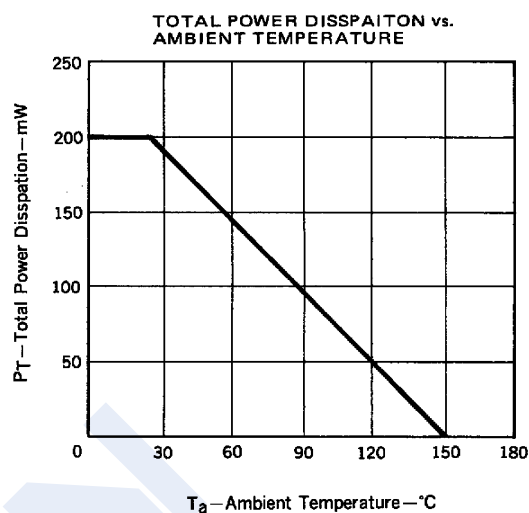
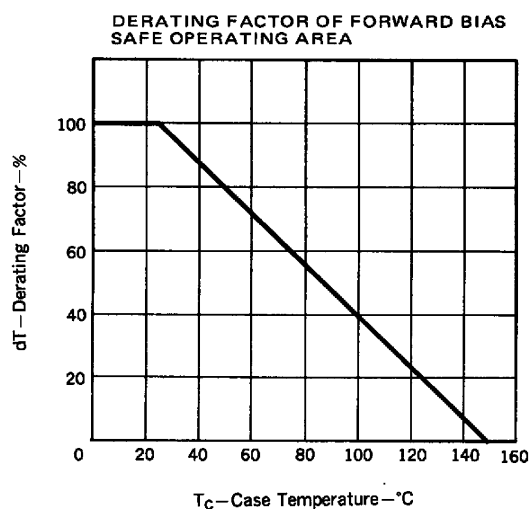
■ Marking

Marking	H16
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P-Channel MOSFET

NTR5105P

■ Typical Characteristics



P-Channel MOSFET

NTR5105P

■ Typical Characteristics

