

Field Effect Transistor

Silicon N Channel MOS Type (π -MOS II)

High Speed, High Current DC-DC Converter,

Relay Drive and Motor Drive Applications

Features

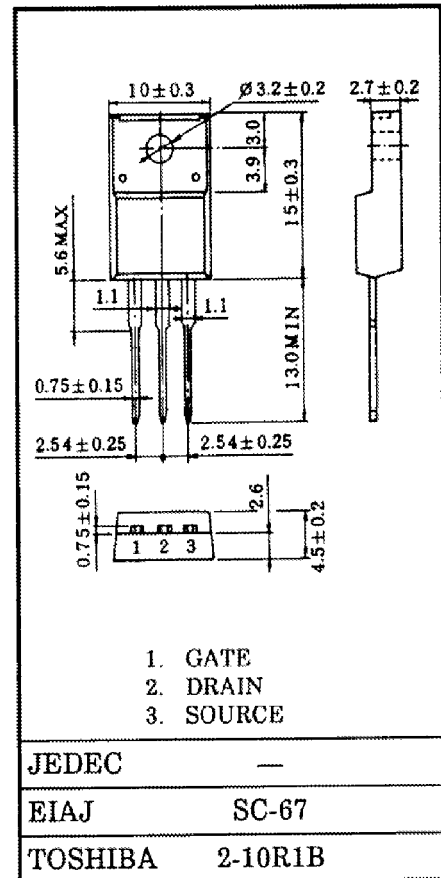
- High Voltage
 - $V_{(BR)DSS} = 900V$
- High Forward Transfer Admittance
 - $|Y_{fs}| = 1.0S$ (Typ.) @ $I_D = 1.5A$
- Low Leakage Current
 - $I_{DSS} = 300\mu A$ (Max.) @ $V_{DS} = 900V$
- Enhancement-Mode

Absolute Maximum Ratings ($T_a = 25^\circ C$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Drain-Source Voltage	V_{DSS}	900	V
Gate-Source Voltage	V_{GSS}	± 30	V
Drain Current	DC	I_D	3
	Pulse	I_{DP}	5
Drain Power Dissipation ($T_c = 25^\circ C$)	P_D	40	W
Channel Temperature	T_{ch}	150	$^\circ C$
Storage Temperature Range	T_{stg}	-55 ~ 150	$^\circ C$

This transistor is an electrostatic sensitive device. Please handle with care.

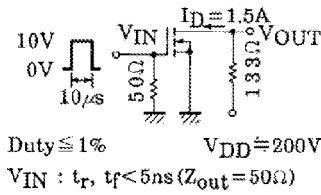
Industrial Applications Unit in mm

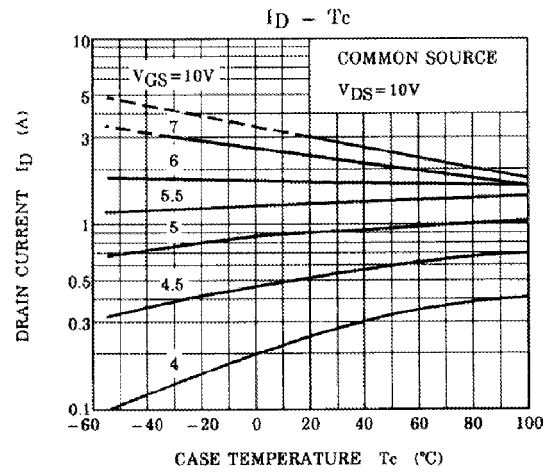
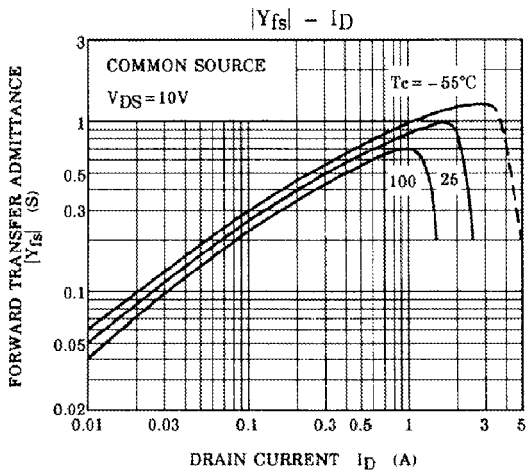
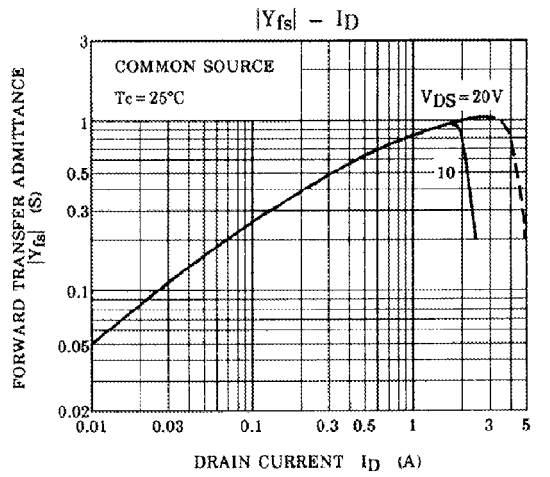
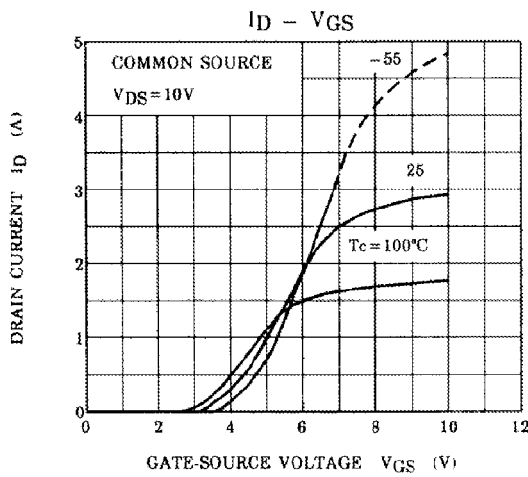
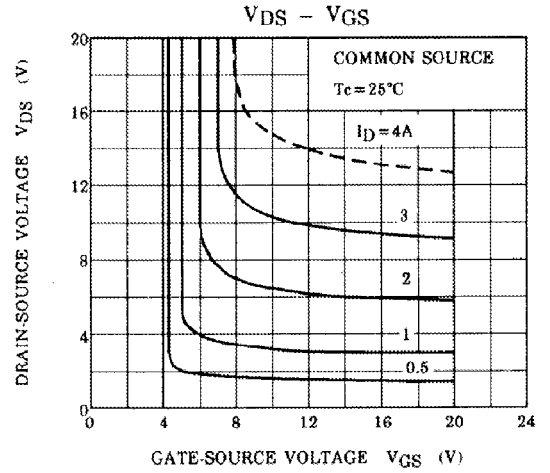
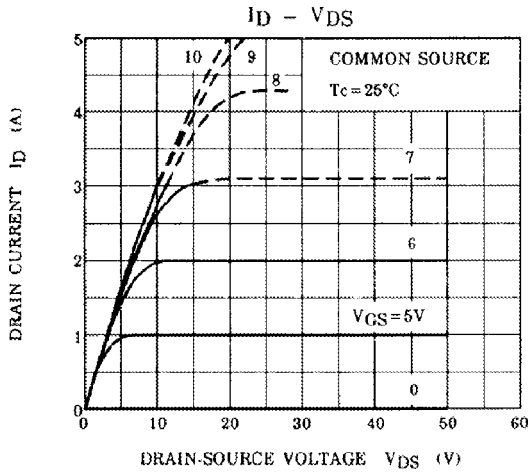


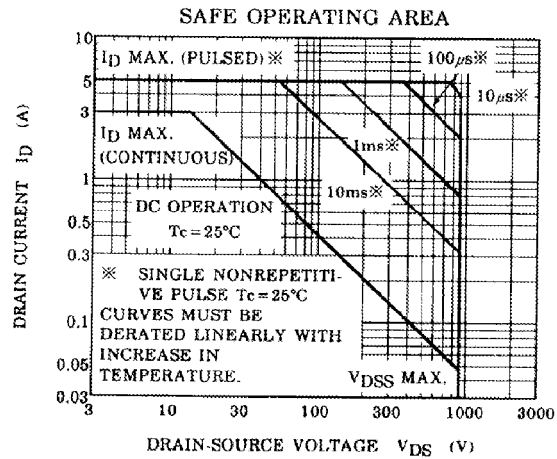
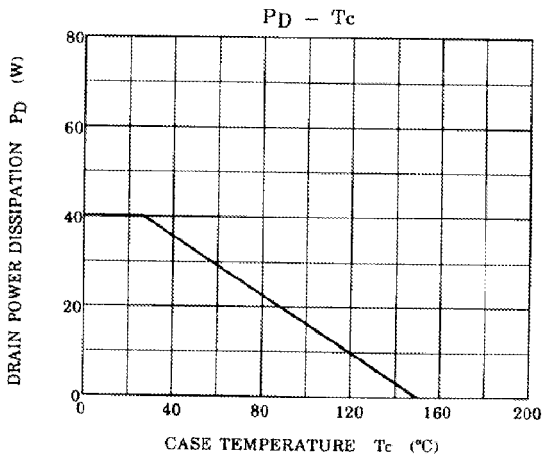
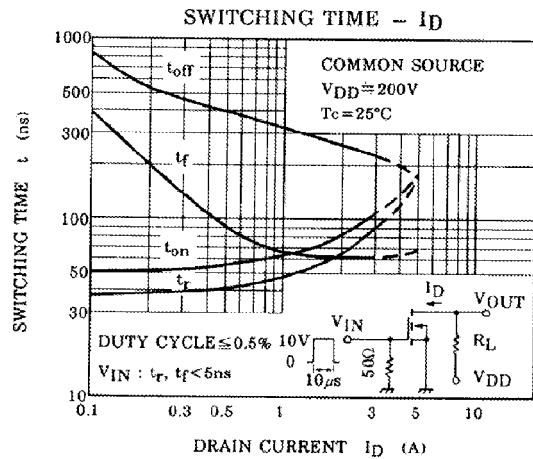
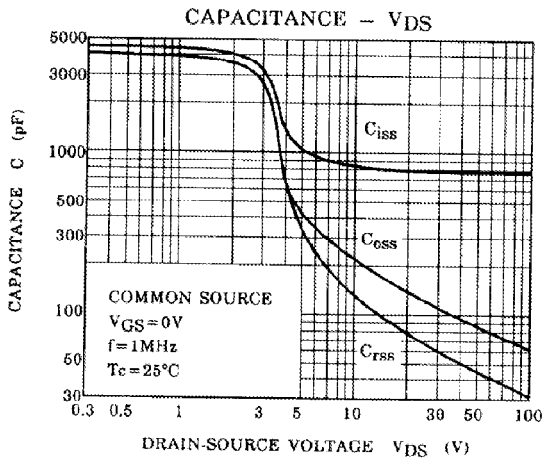
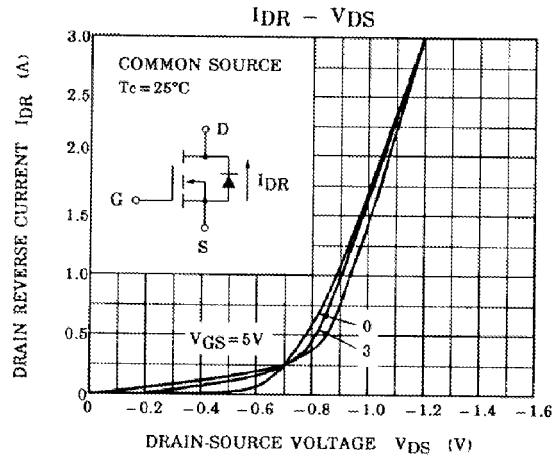
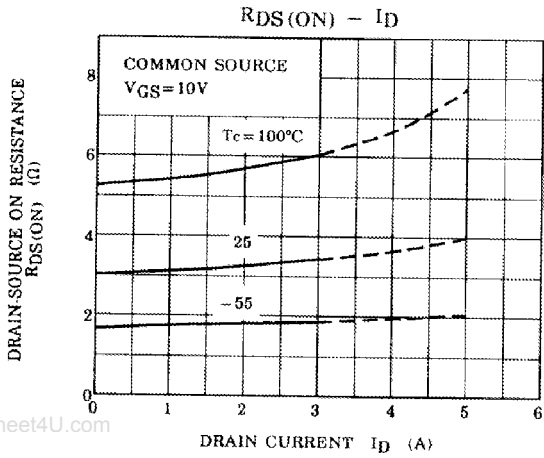
Weight : 1.9g

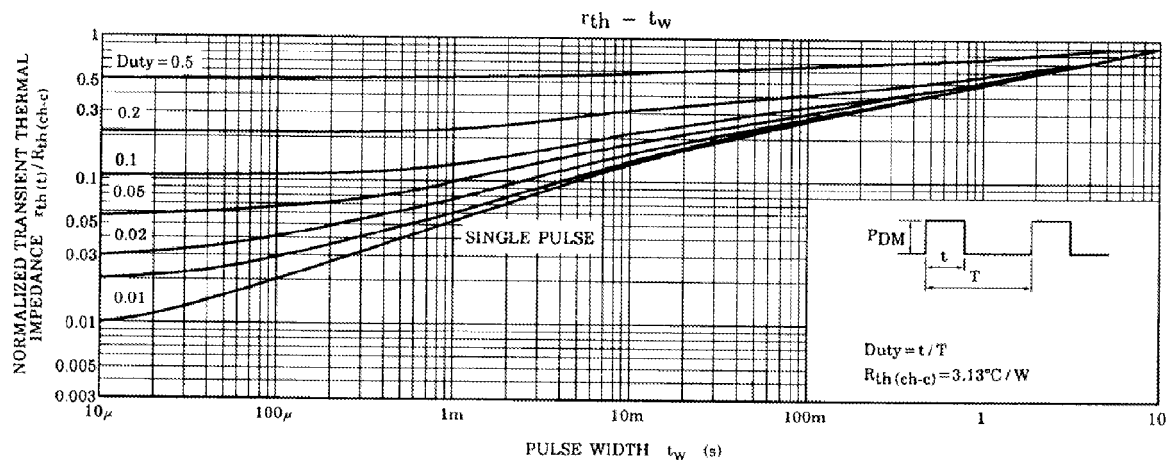
Electrical Characteristics (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Gate Leakage Current	I_{GSS}	$V_{GS} = \pm 25V, V_{DS} = 0V$	–	–	± 100	nA
Drain Cut-off Current	I_{DSS}	$V_{DS} = 900V, V_{GS} = 0V$	–	–	300	μA
Drain-Source Breakdown Voltage	$V_{(BR)DSS}$	$I_D = 10mA, V_{GS} = 0V$	900	–	–	V
Gate Threshold Voltage	V_{th}	$V_{DS} = 10V, I_D = 1mA$	1.5	–	3.5	V
Drain-Source Resistance	$R_{DS(ON)}$	$I_D = 1.5A, V_{GS} = 10V,$	–	3.3	4.3	Ω
Forward Transfer Admittance	$ Y_{fs} $	$V_{DS} = 10V, I_D = 1.5A$	0.5	1.0	–	S
Input Capacitance	C_{iss}	$V_{DS} = 25V, V_{GS} = 0V,$ $f = 1MHz$	–	800	1100	pF
Reverse Transfer Capacitance	C_{rss}		–	70	120	
Output Capacitance	C_{oss}		–	120	200	
Switching Time	Rise Time	t_r	–	55	120	ns
	Turn-on Time	t_{on}	–	70	165	
	Fall Time	t_f	–	60	120	
	Turn-off Time	t_{off}	–	280	550	









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