

HIGH SPEED, HIGH VOLTAGE SWITCHING APPLICATIONS.
SWITCHING REGULATOR AND MOTOR DRIVE APPLICATIONS.

FEATURES:

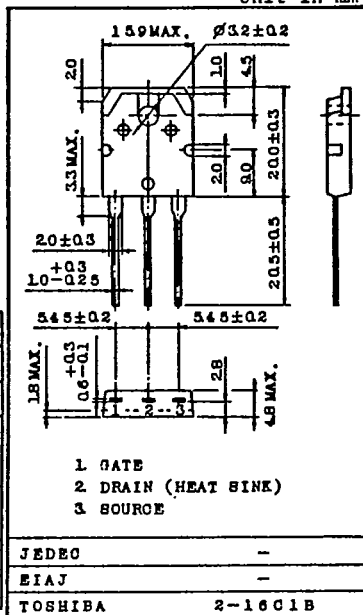
- High Breakdown Voltage : $V_{(BR)DSS} = 850V$
- High Forward Transfer Admittance : $|Y_{fs}| = 1.7S (Typ.)$
- Low Leakage Current : $I_{GSS} = \pm 100nA (Max.)$ ($V_{GS} = \pm 20V$)
 $I_{DSS} = 300\mu A (Max.)$ ($V_{DS} = 850V$)
- Enhancement-Mode : $V_{th} = 1.5 \sim 3.5V$ ($I_D = 1mA$)

MAXIMUM RATINGS ($T_a = 25^\circ C$)

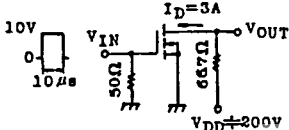
CHARACTERISTIC	SYMBOL	RATING	UNIT
Drain-Source Voltage	V_{DSX}	850	V
Gate-Source Voltage	V_{GSS}	± 20	V
Drain Current	DC	I_D	A
	Pulse	I_{DP}	
Drain Power Dissipation ($T_c = 25^\circ C$)	P_D	150	W
Channel Temperature	T_{ch}	150	$^\circ C$
Storage Temperature Range	T_{stg}	$-55 \sim 150$	$^\circ C$

INDUSTRIAL APPLICATIONS

Unit in mm



ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ C$)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Gate Leakage Current		IGSS	VGS=±20V, VDS=0	-	-	±100	nA
Drain Cut-off Current		IDSS	VDS=850V, VGS=0	-	-	300	μA
Drain-Source Breakdown Voltage		V(BR)DSS	ID=10mA, VGS=0	850	-	-	V
Gate Threshold Voltage		Vth	VDS=10V, ID=1mA	1.5	-	3.5	V
Forward Transfer Admittance		Yfs	VDS=10V, ID=3A	1.0	1.7	-	S
Drain-Source ON Resistance		RDS(ON)	ID=3A, VGS=10V	-	2.1	2.5	Ω
Drain-Source ON Voltage		VDS(ON)	ID=5A, VGS=10V	-	11	13	V
Input Capacitance		Ciss	VDS=25V, VGS=0, f=1MHz	-	1400	1900	pF
Reverse Transfer Capacitance		Crss	VDS=25V, VGS=0, f=1MHz	-	110	200	pF
Output Capacitance		Coss	VDS=25V, VGS=0, f=1MHz	-	190	300	pF
Switching Time	Rise Time	tr		-	110	220	ns
	Turn-on Time	ton		-	130	260	
	Fall Time	tf		-	90	260	
	Turn-off Time	toff		-	180	900	

