

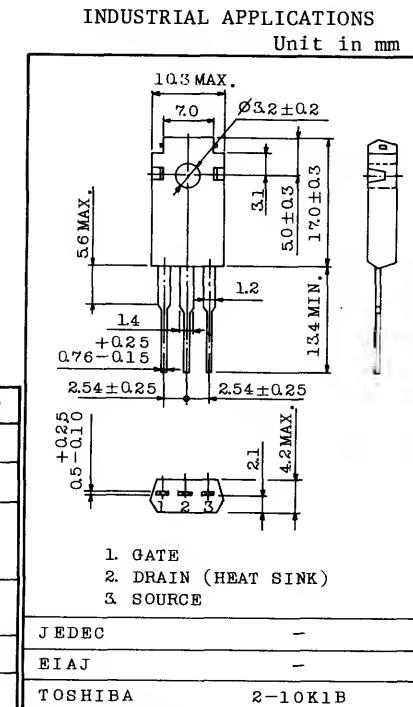
HIGH SPEED, HIGH VOLTAGE SWITCHING APPLICATIONS.
SWITCHING REGULATOR, DC-DC CONVERTER AND MOTOR
DRIVE APPLICATIONS.

FEATURES:

- High Brakdwon Voltage : $V_{(BR)DSS}=450V$
- High Forward Transfer Admittance : $|Y_{fs}|=1.2S$ (Typ.)
- Low Leakage Current : $I_{GSS}=\pm 100nA$ (Max.) @ $V_{GS}=\pm 20V$
 $I_{DS}=1mA$ (Max.) @ $V_{DS}=450V$
- 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}	450	V
Gate-Source Voltage		V_{GSS}	± 20	V
Drain Current	DC	I_D	2	A
	Pulse	I_{DP}	4	
Drain Power Dissipation ($T_c=25^{\circ}C$)		P_D	50	W
Channel Temperature		T_{ch}	150	$^{\circ}C$
Storage Temperature Range		T_{stg}	-55 ~ 150	$^{\circ}C$



Weight : 2.0g

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Gate Leakage Current	I_{GSS}	$V_{GS}=\pm 20V$, $V_{DS}=0$	-	-	± 100	nA	
Drain Cut-off Current	I_{DS}	$V_{DS}=450V$, $V_{GS}=0$	-	-	1.0	mA	
Drain-Source Breakdown Voltage	$V_{(BR)DSS}$	$I_D=10mA$, $V_{GS}=0$	450	-	-	V	
Gate Threshold Voltage	V_{th}	$V_{DS}=10V$, $I_D=1mA$	1.5	-	3.5	V	
Forward Transfer Admittance	$ Y_{fs} $	$V_{DS}=10V$, $I_D=1A$	0.6	1.2	-	S	
Drain-Source ON Resistance	$R_{DS(ON)}$	$I_D=1A$, $V_{GS}=10V$	-	1.8	2.5	Ω	
Drain-Source ON Voltage	$V_{DS(ON)}$	$I_D=4A$, $V_{GS}=10V$	-	9.0	14	V	
Input Capacitance	C_{iss}	$V_{DS}=10V$, $V_{GS}=0$, $f=1MHz$	-	410	600	pF	
Reverse Transfer Capacitance	C_{rss}	$V_{DS}=10V$, $V_{GS}=0$, $f=1MHz$	-	35	70	pF	
Output Capacitance	C_{oss}	$V_{DS}=10V$, $V_{GS}=0$, $f=1MHz$	-	115	170	pF	
Switching Time	Rise Time	t_r	$I_D=1A$ 	-	15	30	ns
	Turn-on Time	t_{on}		-	30	60	ns
	Fall Time	t_f		-	30	60	ns
	Turn-off Time	t_{off}		-	100	200	ns

THIS TRANSISTOR IS THE ELECTROSTATIC SENSITIVE DEVICE. PLEASE HANDLE WITH CAUTION.