

9097250 TOSHIBA (DISCRETE/OPTO)

查询"2SK529"供应商

99D 16698 DT39-09



SEMICONDUCTOR

TECHNICAL DATA

TOSHIBA FIELD EFFECT TRANSISTOR

2SK529

SILICON N CHANNEL MOS TYPE
(π -MOS)

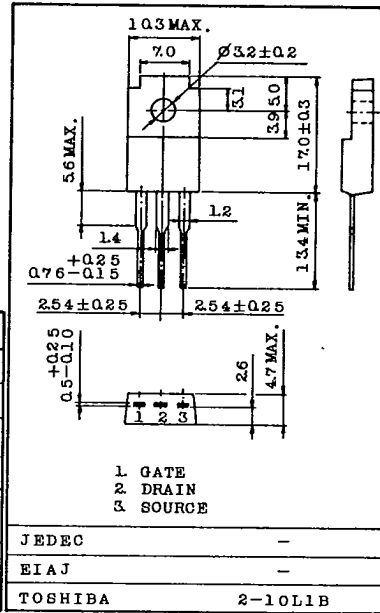
HIGH SPEED, HIGH VOLTAGE SWITCHING APPLICATIONS.
SWITCHING REGULATOR, DC-DC CONVERTER AND MOTOR
DRIVE APPLICATIONS.

FEATURES:

- High Breakdown Voltage : $V_{(BR)DSS}=450V$
- High Forward Transfer Admittance: $|Y_{fs}|=1.2S$ (Typ.)
- Low Leakage Current : $I_{GSS}=\pm 100nA$ (Max.) @ $V_{GS}=\pm 20V$
 $I_{DSS}=1mA$ (Max.) @ $V_{DS}=450V$
- Enhancement-Mode : $V_{th}=1.5\sim 3.5V$ @ $I_D=1mA$
- TO-220 Isolation Package Which Requires Neither
Insulating Bushing Nor Mica Insulator.

INDUSTRIAL APPLICATIONS

Unit in mm



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
	Pulse	I_{DP}	4
Drain Power Dissipation ($T_c=25^\circ C$)	P_D	30	W
Channel Temperature	T_{ch}	150	$^\circ C$
Storage Temperature Range	T_{stg}	-55 ~ 150	$^\circ C$

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

Weight : 2.1g

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_{DSS}	$V_{DS}=450V, V_{GS}=0$	-	-	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	2.6	Ω		
Drain-Source ON Voltage	$V_{DS(ON)}$	$I_D=4A, V_{GS}=10V$	-	9.0	15	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			-	20	40	ns
	Turn-on Time	t_{on}			-	30	60	ns
	Fall Time	t_f			-	35	70	ns
	Turn-off Time	t_{off}			-	100	200	ns

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

TOSHIBA CORPORATION

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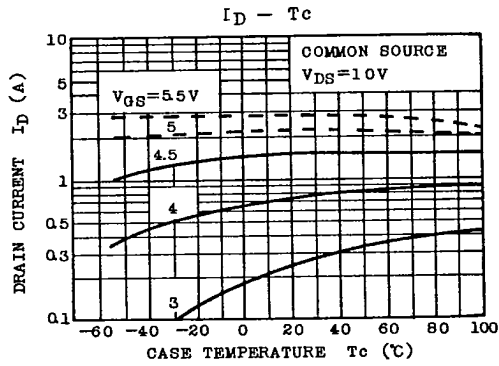
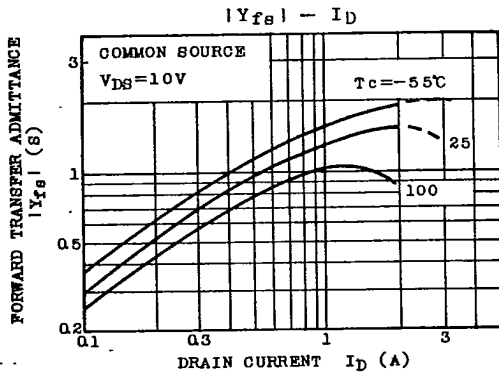
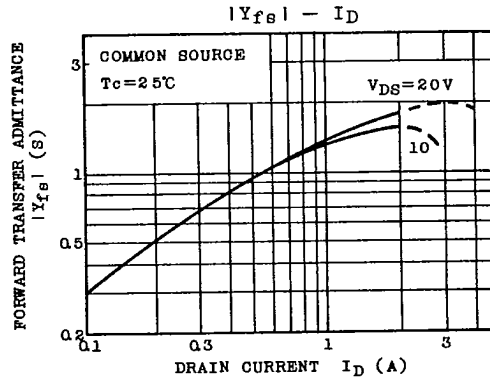
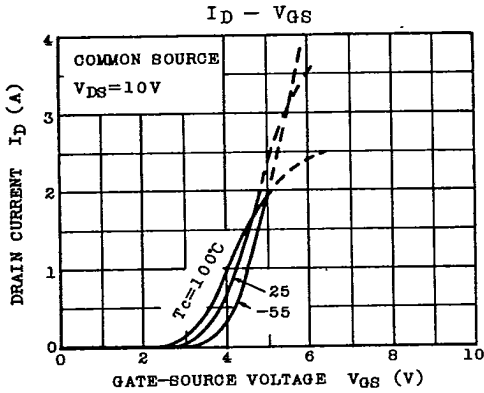
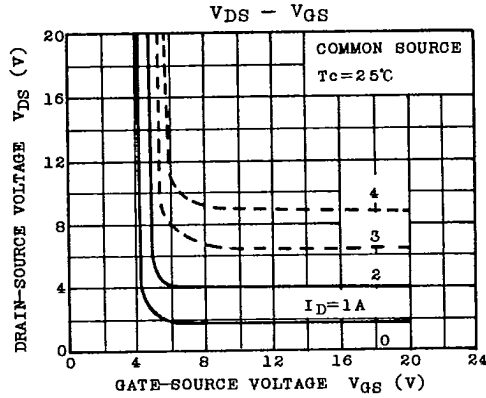
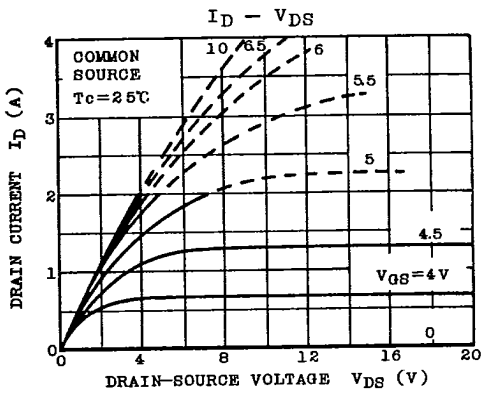
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