909查询23的28的模应商DISCRETE/OPTO)

99D 16695 D T-39-09

INDUSTRIAL APPLICATIONS



SEMICONDUCTOR

2 S K 5 2 8

TECHNICAL DATA

SILICON N CHANNEL MOS TYPE $(\pi-MOS)$

TOSHIBA FIELD EFFECT TRANSISTOR

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

FEATURES:

- . High Breakdown Voltage: V(BR)DSS=400V
 . High Forward Transfer Admittance: |Yfs|=1.2S(Typ.)
 . Low Leakage Current: IGSS=±100nA(Max.) @ VGS=±20V IDSS=1mA (Max.) @ VDS=400V : Vth=1.5~3.5V @ ID=1mA
- . Enhancement-Mode
- TO-220 Isolation Package Which Requires Neither Insulating Bushing Nor Mica Insulator.

MAXIMUM RATINGS (Ta=25°C)

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CHARACTERISTIC		SYMBOL	RATING	UNIT	
Drain-Source Voltage		VDSX	400	v	
Gate-Source Voltage		V _{GSS}	±20	v	
Drain Current	DC	ID	2	A	
	Pulse	IDP	4		
Drain Power Dissipation (Tc=25°C)		PD	30	W	
Channel Temperature		Tch	150	°C	
Storage Temperature Range		Tstg	-55~150	°C	

Unit in mm 103 MAX 2.54±0.25 254±025 +025 05-010 1. GATE 2. DRAIN 3. SOURCE JEDEC EIAJ 2-10L1B TOSHIBA

Weight: 2.1g

FIECTRICAL CHARACTERISTICS (Ta=25°C)

ELECTRICAL CHARACTERISTICS (18-23 C)							
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Gate Leakage Current		IGSS	V _G S=±20V, V _D S=0	-		±100	nΑ
Drain Cut-off Current		IDSS	V _{DS} =400V, V _{GS} =0	-		1.0	mA
Drain-Source Breakdown Voltage		V(BR)DSS	ID=10mA, VGS=0	400	-	-	V
Gate Threshold Voltage		Vth	VDS=10V, ID=1mA	1.5	-	3.5	V
Forward Transfer Admittance		lYfsl	V _{DS} =10V, I _D =1A	0.6	1.2		S
Drain-Source ON Resistance		R _{DS} (ON)	I _D =1A, V _{GS} =10V	-	1.6	2.2	Ω
Drain-Source ON Voltage		V _{DS} (ON)	I _D =4A, V _{GS} =10V	-	8.5	12	V
Input Capacitance		Ciss	V _{DS} =10V, V _{GS} =0, f=1MHz	-	410	600	рF
Reverse Transfer Capacitance		Crss	VDS=10V, VGS=0, f=1MHz	-	35	70	рF
Output Capacitance		Coss	VDS=10V, VGS=0, f=1MHz	-	115	170	pF
Switching Time	Rise Time	tr	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	-	20	40	ns
	Turn-on Time	ton		-	30	60	ns
	Fall Time	tf		-	35	70	ns
	Turn-off Time	toff		-	100	200	ns
	Turi orr rime	1 -011				4	

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

TOSHIBA CORPORATION

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90室间526K529M共产商(DISCRETE/OPTO)

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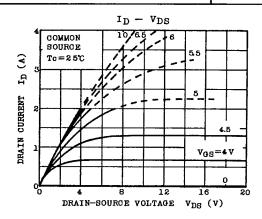
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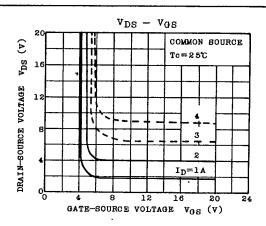


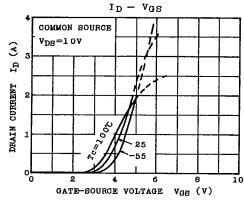
SEMICONDUCTOR

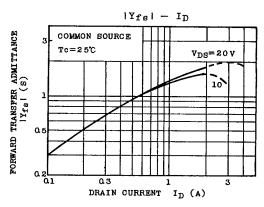
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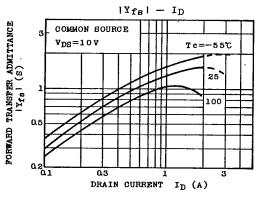
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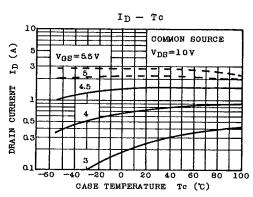












TOSHIBA CORPORATION

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90g荷59K可28供验商 (DISCRETE/OPTO)

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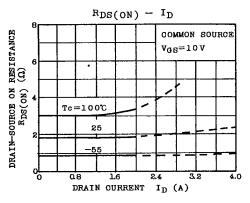
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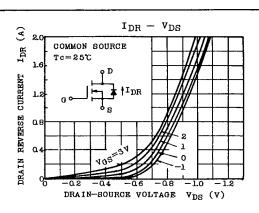


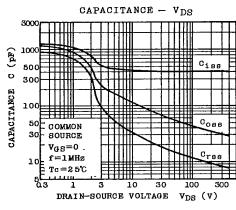
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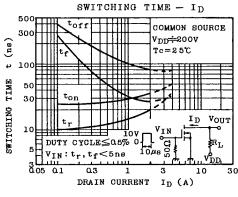
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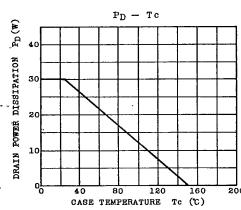
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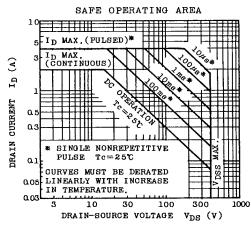












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