909查询2SK98H供应商DISCRETE/OPTO)

99D 16665

DT-39-13



SEMICONDUCTOR

TECHNICAL DATA

TOSHIBA FIELD EFFECT TRANSISTOR 2 S K 3 8 7

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

HIGH SPEED, HIGH VOLTAGE SWITCHING APPLICATIONS.

SHITCHING REGULATOR, DC-DC CONVERTER AND MOTOR DRIVE APPLICATIONS.

FEATURES:

. Low Drain-Source ON Resistance : RDS(ON)=0.12Ω (Typ.)

. High Forward Transfer Admittance : |Yfs| =6S (Typ.)

. Low Leakage Current : I_{GSS} = ± 100 nA(Max.) @ V_{GS} = ± 20 V

IDSS=1mA(Max.) @ VDS=150V

: $V_{th}=1.5\sim3.5V$ @ $I_D=1mA$. Enhancement-Mode

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTI	ī C	SYMBOL	RATING	UNIT	
Drain-Source Voltage		V _{DSX}	150	V	
Gate-Source Voltage	V _{GSS}	±20	V		
Drain Current	DC	ID	12	A	
Drain Current	Pulse	Ipp	40		
Drain Power Dissipati (Tc=25°C)	PD	150	W		
Channel Temperature	Tch	150	°C		
Storage Temperature Range		Tstg	-55~150	°C	

INDUSTRIAL APPLICATIONS

	Unit in mm
	20.5 MAX. Ø3.3±0.2
	2.5 30 1.0 - 0.2 5 1.0 - 0.2 5
1	545±015 , 545±015
	28 28 28 28
1	1 2 3 /
	1. GATE 2. DRAIN (HEAT SINK) 3. SOURCE
$\ $	JEDEC -
1	I =

2-21F1B

TOSHIBA Weight: 9.7g

EIAJ

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Gate Leakage Current		IGSS	v_{GS} =±20V, v_{DS} =0	-	-	±100	nA
Drain Cut-off Current		IDSS	V _{DS} =150V, V _{GS} =0	-	-	1.0	mA
Drain-Source Breakdown Voltage		V(BR)DSS	ID=10mA, VGS=0	150	-	-	v
Gate Threshold Voltage		Vth	V _{DS} =10V, I _D =1mA	1.5	_	3.5	V
Forward Transfer Admittance		lYfsl	V _{DS} =10V, I _D =10A	3	6	_	s
Drain-Source ON Resistance		RDS (ON)	I _D =10A, V _G S=10V	-	0.12	0.18	Ω
Drain-Source ON Voltage		VDS (ON)	I _D =10A, V _{GS} =10V	-	1.2	1.8	v
Input Capacitance		Ciss.	V _{DS} =10V, V _{GS} =0, f=1MHz	-	1600	2200	pF
Reverse Transfer Capacitance		Crss	VDS=10V, VGS=0, f=1MHz	-	350	600	рF
Output Capacitance		Coss	V _{DS} =10V, V _{GS} =0, f=1MHz		800	1300	рF
Switching Time	Rise Time	tr	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	120	260	ns
	Turn-on Time	ton		-	150	300	ns
	Fall Time	tf		-	120	240	ns
	Turn-off Time	toff		_	300	600	ns

TOSHIBA CORPORATION

GTIA2

- 34 -

99日2503870供证的 (DISCRETE/OPTO)

99D 16666

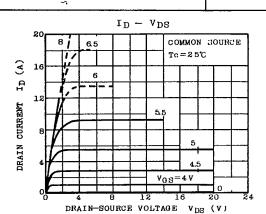
DT-39-13

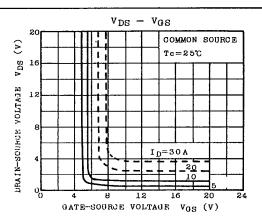


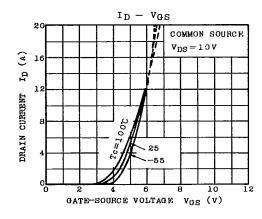
SEMICONDUCTOR

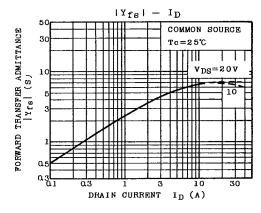
TECHNICAL DATA

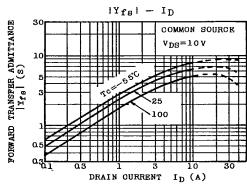
2 S K 3 8 7

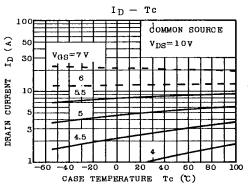












TOSHIBA CORPORATION

GT I A 2

- 35 -

909查询如SKOSH供应商DISCRETE/OPTO)

99D 16667

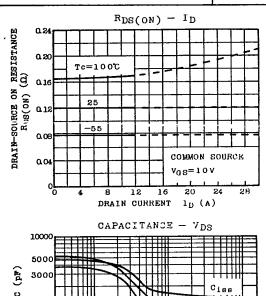
DT-39-13

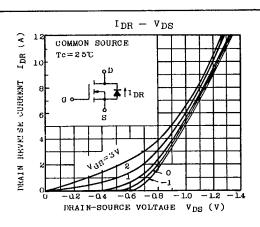


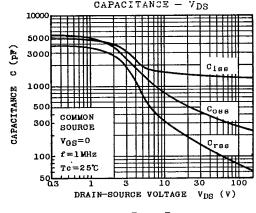
SEMICONDUCTOR

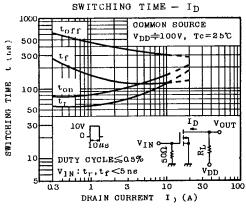
TECHNICAL DATA

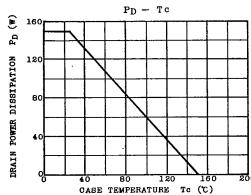
2 S K 3 8 7

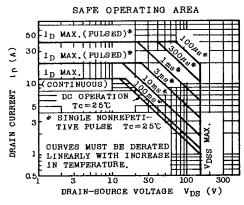












TOSHIBA CORPORATION

GTIA2

- 36 --