T-39-09

90里荷多KIQS快递商 (DISCRETE/OPTO)

SEMICONDUCTOR

TOSHIBA FIELD EFFECT TRANSISTOR 2 S K 4 4 2

99D 16680

SILICON N CHANNEL MOS TYPE

TECHNICAL DATA

HIGH SPEED SWITCHING APPLICATION. DC-DC CONVERTER APPLICATION.

FEATURES:

- . Low Drain-Source Saturation Voltage : VDS(ON)=1.4V(Typ.)
- . High Forward Transfer Admittance : |Yfs|=1.9S(Typ.)
- . Complementary to 2SJ123.

Unit in mm Ø36±02 103 MAX 1. GATE

2. DRAIN (HEAT SINK)

3. SOURCE

TO-220AB JEDEC SC-46 TOSHIBA 2-10A1C

Weight: 1.9g

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Drain-Source Voltage	V _{DSS}	70	v
Gate-Source Voltage	VGSS	±20	V
Drain Current	ID	10	Α
Drain Power Dissipation (Tc=25°C)	PD	30	W
Channel Temperature	Tch	150	°C
Storage Temperature Range	Tstg	-55~150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Gate Leakage Current	IGSS	V _{DS} =0, V _{GS} =±20V	-	_	±1.0	μA
Drain Cut-off Current	IDSS	V _{DS} =70V, V _{GS} =0	-	-	1.0	πA
Drain-Source Breakdown Voltage	V(BR)DSS	I _D =1mA, V _G S=0	70	-	_	V
Gate-Source Cut-off Voltage	V _{GS} (OFF)	V _{DS} =5V, I _D =1mA	1.0	-	3.0	V
Drain-Source Saturation Voltage	V _{DS} (ON)	I _D =7A, V _{GS} =15V	-	1.4	2.8	V
Forward Transfer Admittance	Yfs	V _{DS} =5V, I _D =2A	1.0	1.9	-	S
Input Capacitance	Ciss	V _{DS} =10V, V _{GS} =0, f=1MHz	-	330	-	pF
Output Capacitance	Coss	V _{DS} =10V, V _{GS} =0, f=1MHz	-	300	_	pF
Reverse Transfer Capacitance	Crs	V _{DS} =10V, V _{GS} =0, f=1MHz	-	130	-	рF

TOSHIBA CORPORATION

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90重加506K内内SH供的商(DISCRETE/OPTO)

99D 16681

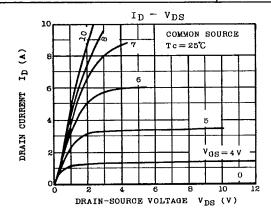
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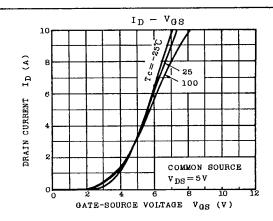


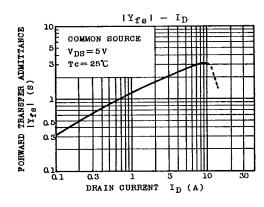
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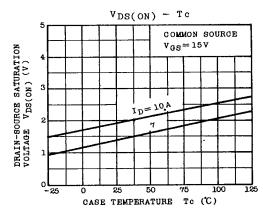
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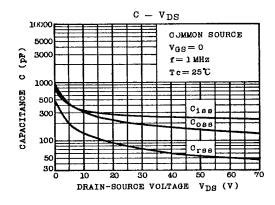
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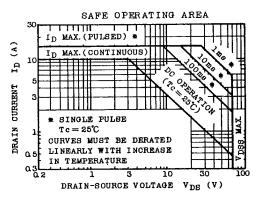












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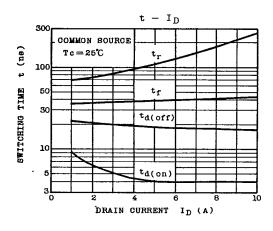
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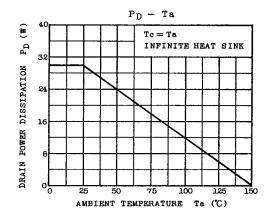


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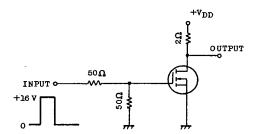
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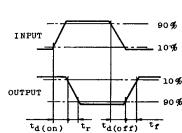
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SWITCHING TIME TEST CIRCUIT





RESPONSE WAVE FORM

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