TOSHIBA FIELD EFFECT TRANSISTOR SILICON N CHANNEL MOS TYPE

2 S K 2 4 6 7 - Y

HIGH POWER AMPLIFIER APPLICATION

Unit in mm

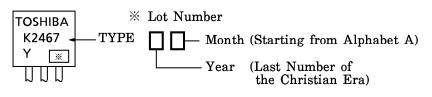
High Breakdown Voltage $: V_{DSS} = 180V$

High Forward Transfer Admittance : $|Y_{fS}| = 4.0S$ (Typ.)

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	SYMBOL RATING	
Drain-Source Voltage	$ m v_{DSS}$	180	V
Gate-Source Voltage	v_{GSS}	±20	V
Drain Current	I_{D}	9	Α
Drain Power Dissipation (Tc=25°C)	$P_{\mathbf{D}}$	80	W
Channel Temperature	$\mathrm{T_{ch}}$	150	$^{\circ}\mathrm{C}$
Storage Temperature Range	$T_{ m stg}$	-55~150	$^{\circ}\mathrm{C}$

MARKING



ELECTRICAL CHARACTERISTICS (Ta = 25°C)

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JEDEC		
EIAJ	_	
TOSHIBA	2-16F1B	

Weight	•	5 8g	(Tyn)
WCIGILU	٠	0.05	(I) D./

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Drain Cut-Off Current	$I_{ m DSS}$	$V_{DS} = 180V, V_{GS} = 0$	_	_	1.0	mA
Gate Leakage Current	I_{GSS}	$V_{DS} = 0, V_{GS} = \pm 20V$	_	_	±0.5	μ A
Drain-Source Breakdown Voltage	V _(BR) DSS	$I_D=10$ mA, $V_{GS}=0$	180	_	_	V
Drain-Source Saturation Voltage	V _{DS} (ON)	$V_{GS}=10V, I_{D}=6A$	_	2.5	5.0	V
Gate-Source Cut-off Voltage (Note)	V _{GS (OFF)}	$V_{DS} = 10V, I_{D} = 0.1A$	1.4	_	2.8	v
Forward Transfer Admittance	Y _{fs}	V_{DS} =10V, I_{D} =3A	_	4.0	_	S
Input Capacitance	C_{iss}	V_{DS} =30V, V_{GS} =0, f=1MHz	_	700	_	рF
Output Capacitance	C_{oss}	V_{DS} =30V, V_{GS} =0, f=1MHz	_	150	_	pF
Reverse Capacitance	$\mathrm{C}_{\mathrm{rss}}$	V_{DS} =30V, V_{GS} =0, f=1MHz	_	90		pF

(Note): VGS (OFF) Classification Y:1.4~2.8

This transistor is an electrostatic sensitive device. Please handle with caution.

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