

TOSHIBA FIELD EFFECT TRANSISTOR SILICON N CHANNEL JUNCTION TYPE

# 2SK373

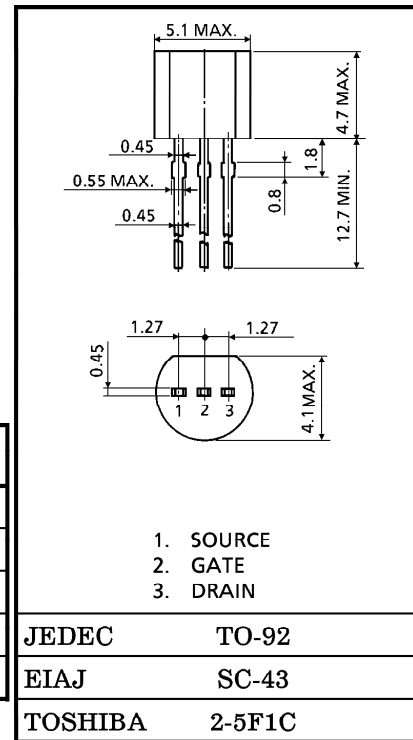
FOR AUDIO, HIGH VOLTAGE AMPLIFIER AND CONSTANT CURRENT APPLICATIONS

Unit in mm

- High Breakdown Voltage :  $V_{GDS} = -100V$  (Min.)
- High Input Impedance :  $I_{GSS} = -1.0nA$  (Max.) ( $V_{GS} = -80V$ )

MAXIMUM RATINGS ( $T_a = 25^\circ C$ )

CHARACTERISTIC	SYMBOL	RATING	UNIT
Gate-Drain Voltage	$V_{GDS}$	-100	V
Gate Current	$I_G$	10	mA
Drain Power Dissipation	$P_D$	400	mW
Junction Temperature	$T_j$	125	$^\circ C$
Storage Temperature Range	$T_{stg}$	-55~125	$^\circ C$



Weight : 0.21g

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Gate Cut-off Current	$I_{GSS}$	$V_{GS} = -80V, V_{DS} = 0$	—	—	-1.0	nA
Gate-Drain Breakdown Voltage	$V(BR)_{GDS}$	$V_{DS} = 0, I_G = -100\mu A$	-100	—	—	V
Drain Current	$I_{DSS}$ (Note)	$V_{DS} = 10V, V_{GS} = 0$	0.6	—	6.5	mA
Gate-Source Cut-off Voltage	$V_{GS(OFF)}$	$V_{DS} = 10V, I_D = 0.1\mu A$	-0.4	—	-3.5	V
Forward Transfer Admittance	$ Y_{fs} $	$V_{DS} = 10V, V_{GS} = 0, f = 1kHz$	1.5	4.6	—	mS
Input Capacitance	$C_{iss}$	$V_{DS} = 10V, V_{GS} = 0, f = 1MHz$	—	13	—	pF
Reverse Transfer Capacitance	$C_{rss}$	$V_{DG} = 10V, I_D = 0, f = 1MHz$	—	3	—	pF
Noise Figure	NF	$V_{DS} = 10V, V_{GS} = 0, R_G = 100k\Omega, f = 100Hz$	—	0.5	—	dB

Note :  $I_{DSS}$  Classification O : 0.6~1.4mA, Y : 1.2~3.0mA, GR : 2.6~6.5mA

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