TOSHIBA FIELD EFFECT TRANSISTOR SILICON P CHANNEL MOS TYPE

2SJ338

AUDIO FREQUENCY POWER AMPLIFIER APPLICATION

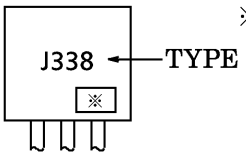
INDUSTRIAL APPLICATIONS

- High Breakdown Voltage : $V_{DSS} = -180$ V
- High Forward Transfer Admittance : $|Y_{fs}| = 0.7$ S (Typ.)
- Complementary to 2SK2162

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Drain-Source Voltage	V_{DSS}	−180	V
Gate-Source Voltage	V_{GSS}	±20	V
Drain Current	I_D	−1	A
Power Dissipation (Tc = 25°C)	P_D	20	W
Channel Temperature	T_{ch}	150	°C
Storage Temperature Range	T_{stg}	−55~150	°C

MARKING

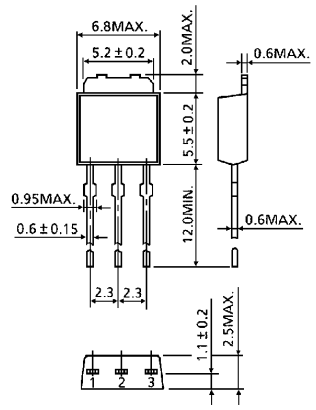


※ Lot Number

□□ Month (Starting from Alphabet A)

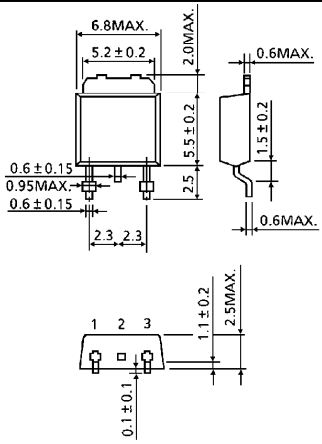
Year (Last Number of the Christian Era)

Unit in mm



1. GATE
2. DRAIN (HEAT SINK)
3. SOURCE

JEDEC	—
EIAJ	SC-64
TOSHIBA	2-7B1B



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JEDEC	—
EIAJ	SC-64
TOSHIBA	2-7B2B

Weight : 0.36 g

961001EAA2

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Gate Leakage Current	I_{GSS}	V_{DS} = 0, V_{GS} = ±20 V	—	—	±100	nA
Drain-Source Breakdown Voltage	$V_{(BR)\,DSS}$	I_D = −10 mA, V_{GS} = 0	−180	—	—	V
Gate -Source Cut-off Current	$V_{GS\,(OFF)}$ (Note)	V_{DS} = −10 V, I_D = −10 mA	−0.8	—	−2.8	V
Drain-Source Saturation Voltage	$V_{DS\,(ON)}$	I_D = −0.6 A, V_{GS} = −10 V	—	−1.2	−3.0	V
Forward Transfer Admittance	$\|Y_{fs}\|$	V_{DS} = −10 V, I_D = −0.3 A	—	0.7	—	S
Input Capacitance	C_{iss}	V_{DS} = −10 V, V_{GS} = 0, f = 1 MHz	—	210	—	pF
Output Capacitance	C_{oss}	V_{DS} = −10 V, V_{GS} = 0, f = 1 MHz	—	90	—	pF
Reverse Transfer Capacitance	C_{rss}	V_{DS} = −10 V, V_{GS} = 0, f = 1 MHz	—	45	—	pF

(Note) : $V_{GS\,(OFF)}$ Classification O : −0.8~−1.6, Y : −1.4~−2.8

This transistor is the electrostatic sensitive device.
Plese handle with caution.