

T-3A-13

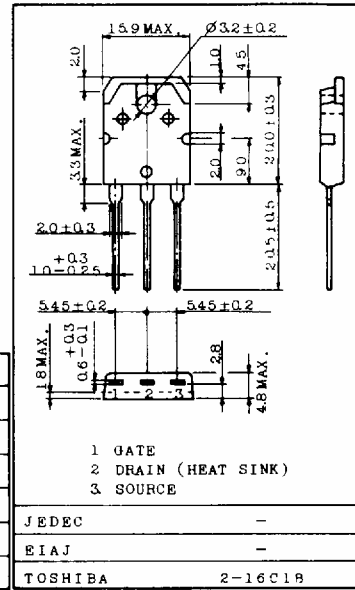
TOSHIBA (DISCRETE/OPTO)

AUDIO FREQUENCY POWER AMPLIFIER APPLICATION.

Unit in mm

FEATURES:

- . High Breakdown Voltage : $V_{DSS}=160V$
- . High Forward Transfer Admittance : $|Y_{fs}|=2.0S$ (Typ.)
- . Complementary to 2SJ115



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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Drain-Source Voltage	V_{DSS}	160	V
Gate-Source Voltage	V_{GSS}	± 20	V
Drain Current	I_D	8	A
Power Dissipation ($T_c=25^\circ C$)	P_D	100	W
Channel Temperature	T_{ch}	150	$^\circ C$
Storage Temperature Range	T_{stg}	-55 ~ 150	$^\circ C$

Weight : 4.6g

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Gate Leakage Current	I_{GSS}	$V_{DS}=0, V_{GS}=\pm 20V$	-	-	± 1.0	μA
Drain-Source Breakdown Voltage	$V_{(BR)DSS}$	$I_D=5mA, V_{GS}=0$	160	-	-	V
Gate-Source Cut-off Voltage	$V_{GS(OFF)}$ (Note)	$V_{DS}=10V, I_D=0.1A$	0.8	-	2.8	V
Drain-Source Saturation Voltage	$V_{DS(ON)}$	$I_D=5A, V_{GS}=10V$	-	2.5	7.0	V
Forward Transfer Admittance	$ Y_{fs} $	$V_{DS}=10V, I_D=2A$	1.0	2.0	-	S
Input Capacitance	C_{iss}	$V_{DS}=10V, V_{GS}=0, f=1MHz$	-	430	-	pF
Output Capacitance	C_{oss}	$V_{DS}=10V, V_{GS}=0, f=1MHz$	-	260	-	pF
Reverse Transfer Capacitance	C_{rs}	$V_{DS}=10V, V_{GS}=0, f=1MHz$	-	80	-	pF

Note : $V_{GS(OFF)}$ Classification 0 : 0.8 ~ 1.6, Y : 1.4 ~ 2.8

