

# 2SD718

## SILICON NPN TRIPLE DIFFUSED TYPE

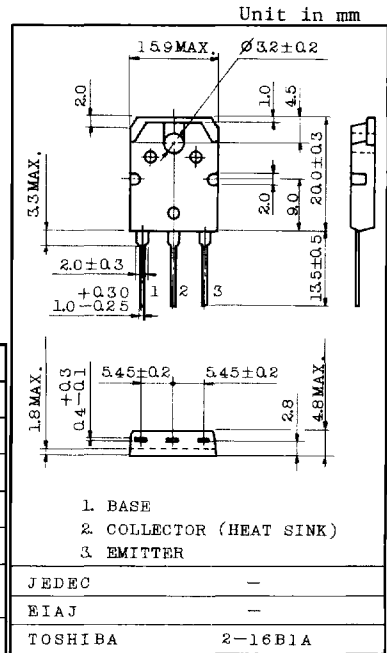
AUDIO FREQUENCY POWER AMPLIFIER APPLICATIONS.

**FEATURES:**

- . Complementary to 2SB688.
- . Recommended for 45~50W audio frequency amplifier output stage.

**MAXIMUM RATINGS** ( $T_a=25^{\circ}\text{C}$ )

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CB0}$	120	V
Collector-Emitter Voltage	$V_{CE0}$	120	V
Emitter-Base Voltage	$V_{EB0}$	5	V
Collector Current	$I_C$	8	A
Base Current	$I_B$	0.8	A
Collector Power Dissipation ( $T_c=25^{\circ}\text{C}$ )	$P_C$	80	W
Junction Temperature	$T_j$	150	$^{\circ}\text{C}$
Storage Temperature Range	$T_{stg}$	-55~150	$^{\circ}\text{C}$



Weight : 4.6g

**ELECTRICAL CHARACTERISTICS** ( $T_a=25^{\circ}\text{C}$ )

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=120\text{V}, I_E=0$	-	-	10	$\mu\text{A}$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=5\text{V}, I_C=0$	-	-	10	$\mu\text{A}$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=50\text{mA}, I_B=0$	120	-	-	V
DC Current Gain	$h_{FE}$ (Note)	$V_{CE}=5\text{V}, I_C=1\text{A}$	55	-	160	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=5\text{A}, I_B=0.5\text{A}$	-	-	2.5	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE}=5\text{V}, I_C=5\text{A}$	-	-	1.5	V
Transition Frequency	$f_T$	$V_{CE}=5\text{V}, I_C=1\text{A}$	-	12	-	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=10\text{V}, I_E=0, f=1\text{MHz}$	-	170	-	pF

Note:  $h_{FE}$  Classification R:55~110, O:80~160

