

# 2SB554

SILICON PNP TRIPLE DIFFUSED MESA TYPE

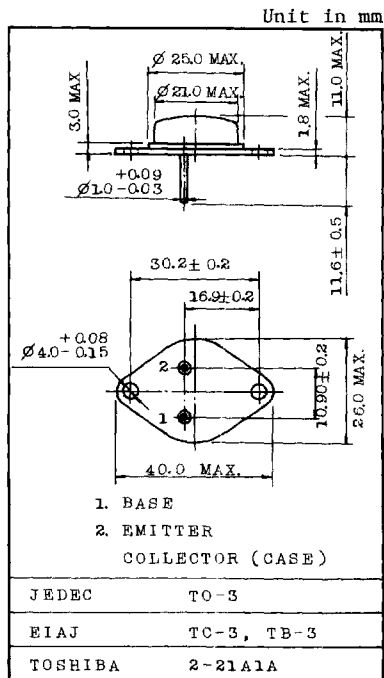
## POWER AMPLIFIER APPLICATIONS.

### FEATURES:

- High Power Dissipation :  $P_C = 150W$
- High Breakdown Voltage :  $V_{CE0} = -180V$
- Complementary to 2SD424.
- Recommended for 100W High-Fidelity Audio Frequency Amplifier Output Stage.

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CB0}$	-180	V
Collector-Emitter Voltage	$V_{CE0}$	-180	V
Emitter-Base Voltage	$V_{EB0}$	-5	V
Collector Current	$I_C$	-15	A
Emitter Current	$I_E$	15	A
Collector Power Dissipation ( $T_c = 25^\circ C$ )	$P_C$	150	W
Junction Temperature	$T_j$	150	$^\circ C$
Storage Temperature Range	$T_{stg}$	-65 ~ 150	$^\circ C$



Mounting Kit No. AC73  
Weight : 12.9g

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=-90V, I_E=0$	-	-	-100	$\mu A$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=-5V, I_C=0$	-	-	-100	$\mu A$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=-0.1A, I_B=0$	-180	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=-10mA, I_C=0$	-5	-	-	V
DC Current Gain	$h_{FE}$ (Note)	$V_{CE}=-5V, I_C=-2A$	40	-	140	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-10A, I_B=-1A$	-	-	-3.0	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE}=-5V, I_C=-10A$	-	-	-2.5	V
Transition Frequency	$f_T$	$V_{CE}=-5V, I_C=-2A$	-	6	-	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=-10V, I_E=0, f=1MHz$	-	450	-	pF

Note:  $h_{FE}$  Classification R : 40 ~ 80, 0 : 70 ~ 140

