

TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED TYPE

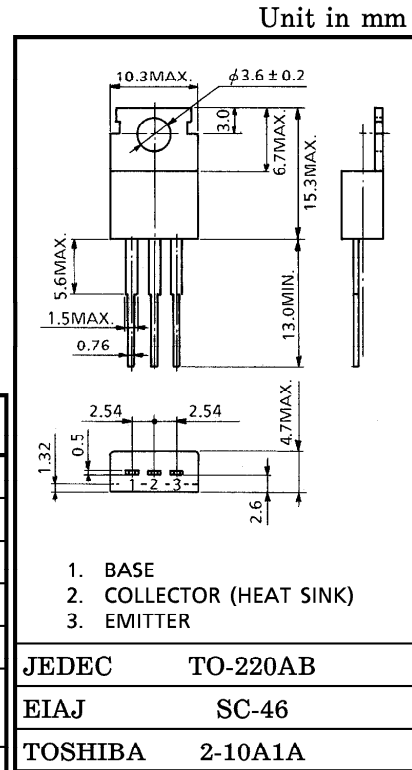
# 2SD526

**POWER AMPLIFIER APPLICATIONS**

- High Power Dissipation :  $P_C=30W$  ( $T_c=25^\circ C$ )
- Good Linearity of  $h_{FE}$ .
- Complementary to 2SB596.
- Recommend for 20~25W High Fidelity Audio Frequency Amplifier Output Stage.

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CB0}$	80	V
Collector-Emitter Voltage	$V_{CEO}$	80	V
Emitter-Base Voltage	$V_{EB0}$	5	V
Collector Current	$I_C$	4	A
Base Current	$I_B$	0.4	A
Collector Power Dissipation ( $T_c=25^\circ C$ )	$P_C$	30	W
Junction Temperature	$T_j$	150	$^\circ C$
Storage Temperature Range	$T_{stg}$	-55~150	$^\circ C$



Weight : 1.9g

Mounting Kit No. AC75

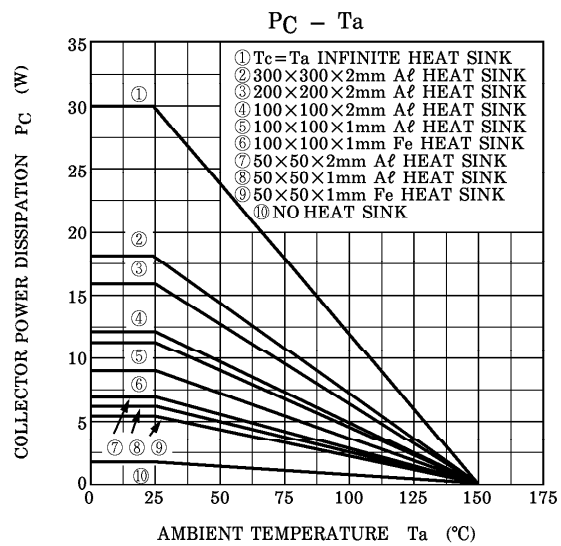
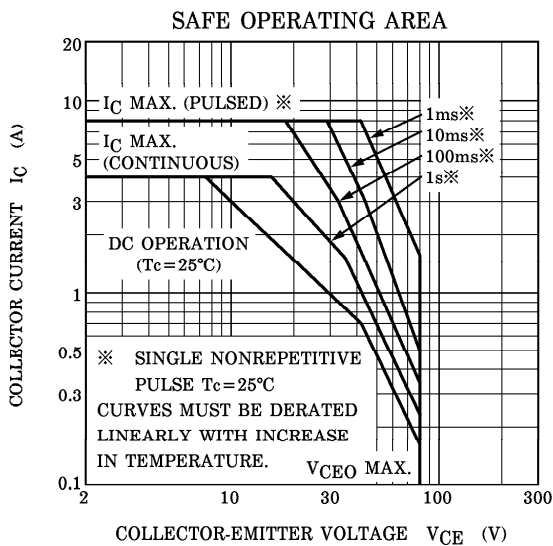
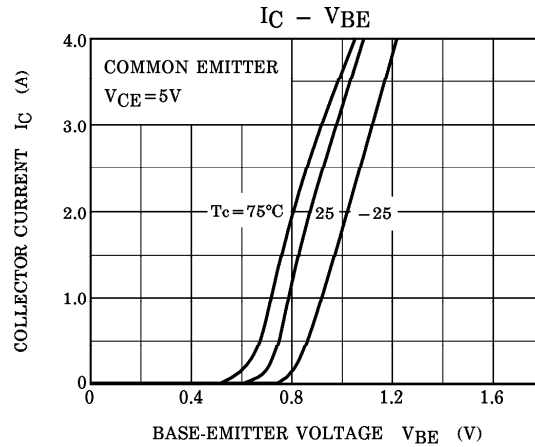
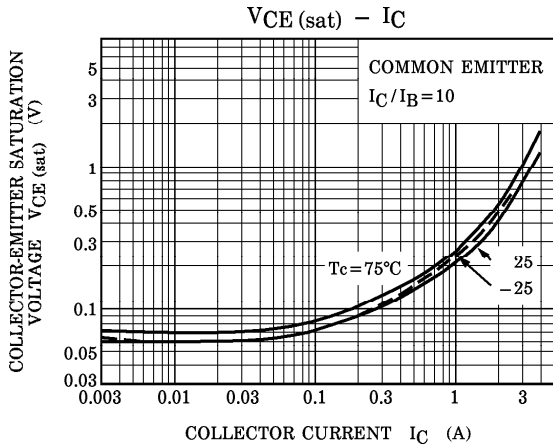
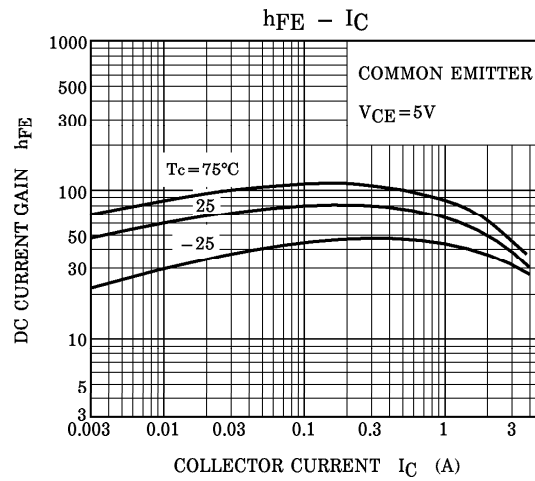
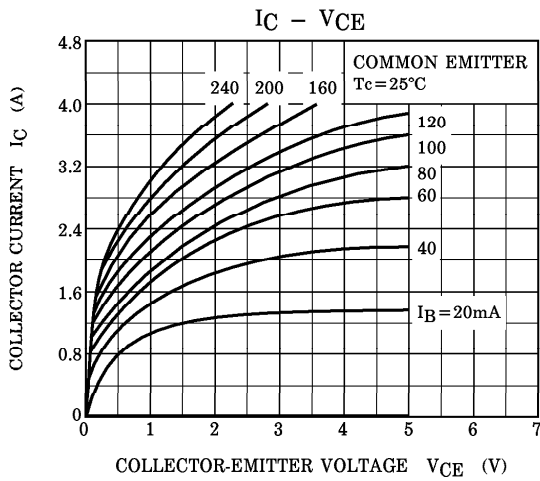
**ELECTRICAL CHARACTERISTICS ( $T_a = 25^\circ C$ )**

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=80V, I_E=0$	—	—	30	$\mu A$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=5V, I_C=0$	—	—	100	$\mu A$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=50mA, I_B=0$	80	—	—	V
DC Current Gain	$h_{FE(1)}$ (Note)	$V_{CE}=5V, I_C=0.5A$	40	—	240	V
	$h_{FE(2)}$	$V_{CE}=5V, I_C=3A$	15	50	—	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=3A, I_B=0.3A$	—	0.45	1.5	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE}=5V, I_C=3A$	—	1.0	1.5	V
Transition Frequency	$f_T$	$V_{CE}=5V, I_C=0.5A$	3	8	—	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=10V, I_E=0, f=1MHz$	—	90	—	pF

Note :  $h_{FE(1)}$  Classification R : 40~80, O : 70~140, Y : 120~240

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