

TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED TYPE

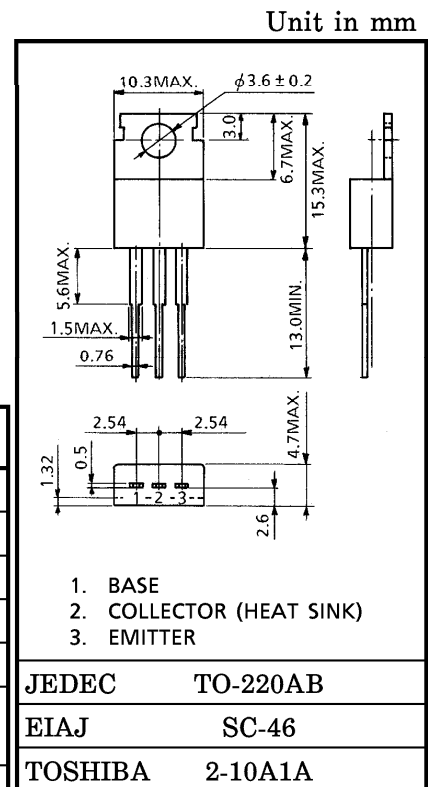
2SD526

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_{CBO}	80	V
Collector-Emitter Voltage	V_{CEO}	80	V
Emitter-Base Voltage	V_{EBO}	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	$^\circ C$



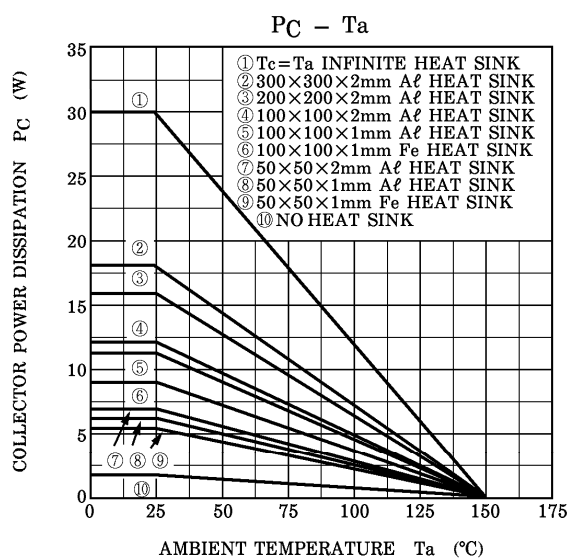
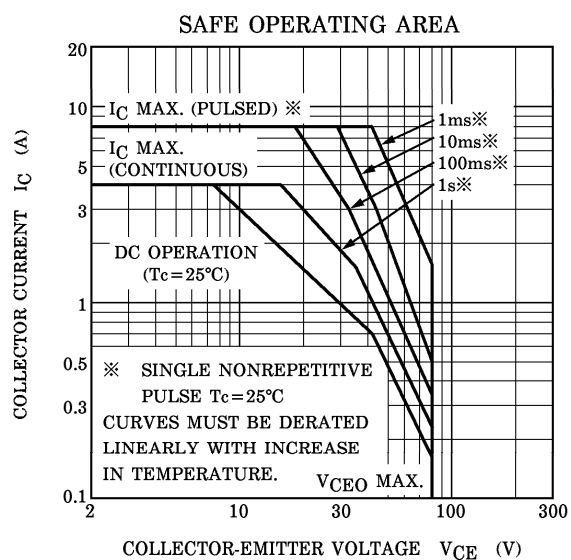
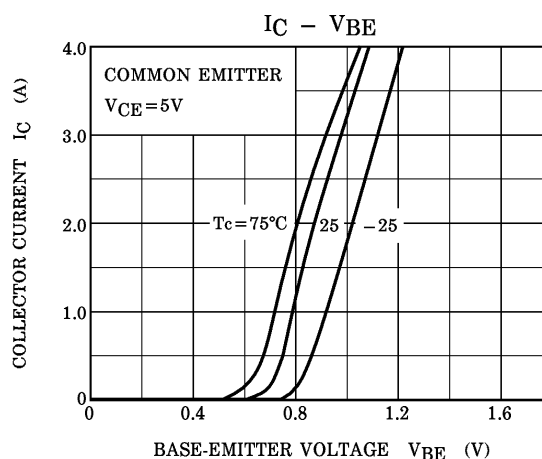
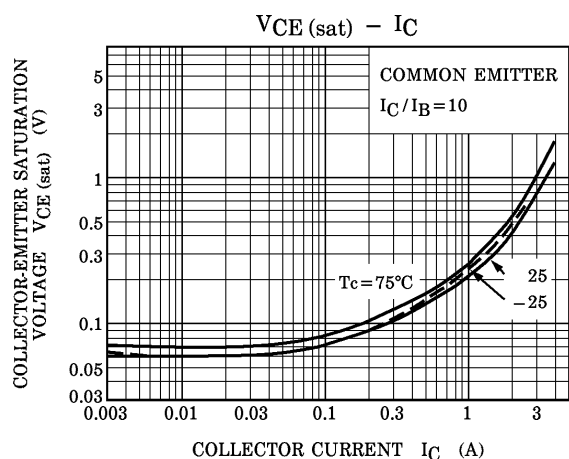
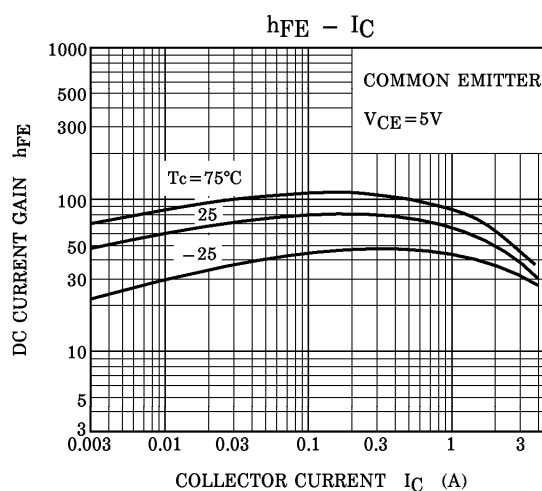
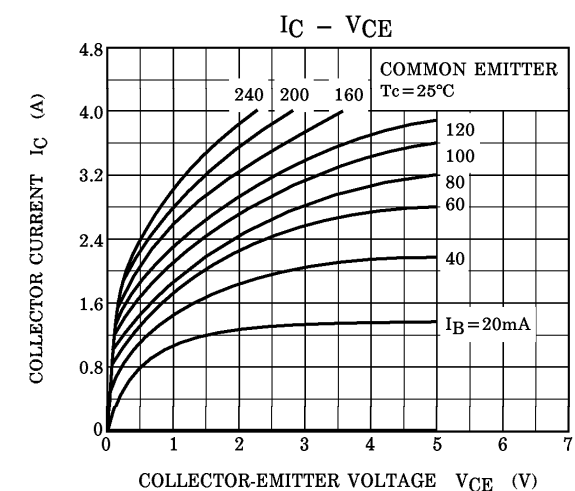
Weight : 1.9g

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	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = 5V, I_C = 0$	—	—	100	μA
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	
	$h_{FE(2)}$	$V_{CE} = 5V, I_C = 3A$	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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