TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED TYPE

2SD526

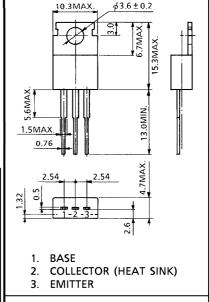
POWER AMPLIFIER APPLICATIONS

- High Power Dissipation : PC=30W (Tc=25°C)
- Good Linearity of hFE.
- Complementary to 2SB596.
- Recommend for 20~25W High Fidelity Audio Frequency Amplifier Output Stage.

MAXIMUM RATINGS (Ta = 25°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	$I_{\mathbf{C}}$	4	A
Base Current	$I_{\mathbf{B}}$	0.4	A
Collector Power Dissipation (Tc=25°C)	PC	30	w
Junction Temperature	T_{j}	150	°C
Storage Temperature Range	$\mathrm{T_{stg}}$	-55~150	°C

Unit in mm



JEDEC TO-220AB
EIAJ SC-46
TOSHIBA 2-10A1A

Weight: 1.9g

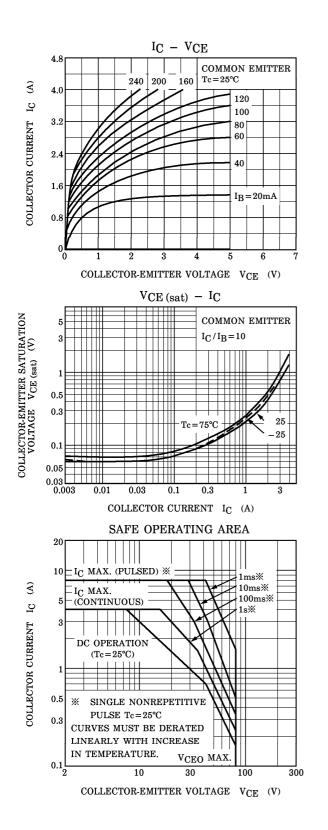
Mounting Kit No. AC75

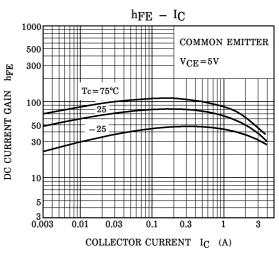
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

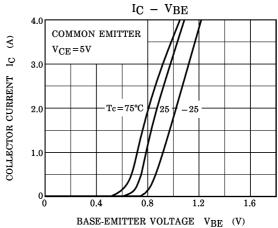
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = 80V, I_{E} = 0$	_	_	30	μ A
Emitter Cut-off Current	$I_{ m EBO}$	$V_{EB}=5V, I_{C}=0$	_	_	100	μ A
Collector-Emitter Breakdown Voltage	V (BR) CEO	$I_{\rm C}$ =50mA, $I_{\rm B}$ =0	80	_	_	V
DC Current Gain	hFE (1) (Note)	V_{CE} =5V, I $_{\mathrm{C}}$ =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	$ m V_{BE}$	$V_{CE}=5V, I_{C}=3A$	_	1.0	1.5	V
Transition Frequency	$ m 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

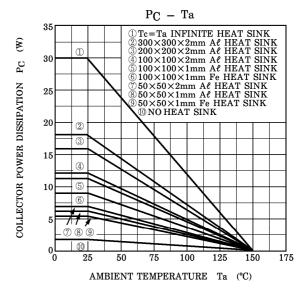
Note : $h_{FE(1)}$ Classification $R:40\sim80$, $O:70\sim140$, $Y:120\sim240$

1 2001-05-24









2 2001-05-24

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