

TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED TYPE

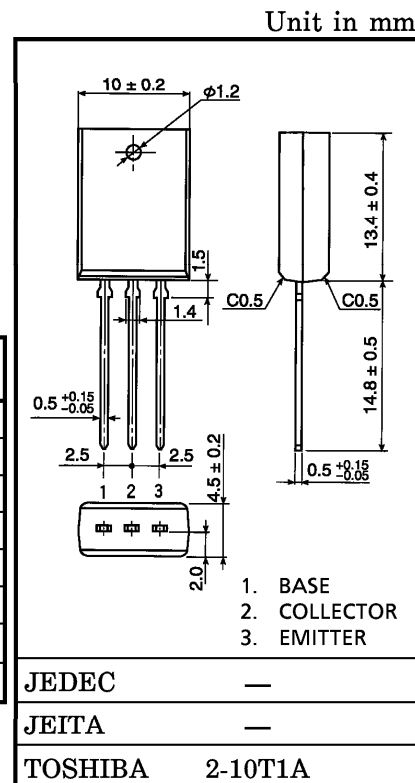
2SD2525

AUDIO FREQUENCY POWER AMPLIFIER APPLICATIONS

- High DC Current Gain : 100 (Min.)
- Low Saturation Voltage
: $V_{CE(sat)} = 1.0V$ (Max.) ($I_C = 2A$, $I_B = 0.2A$)

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

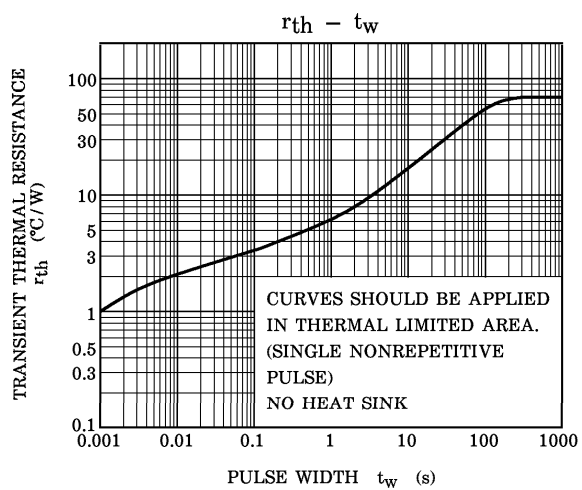
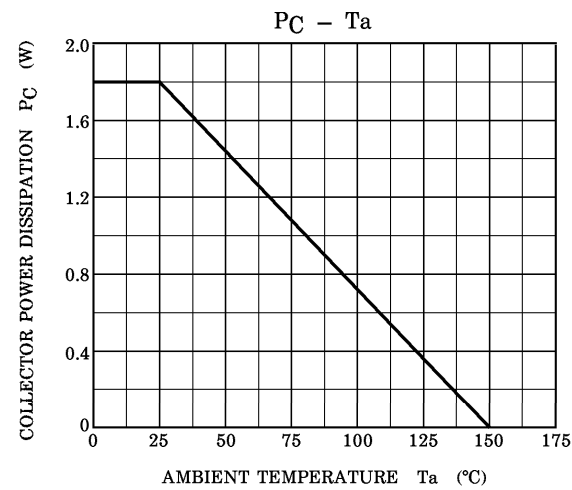
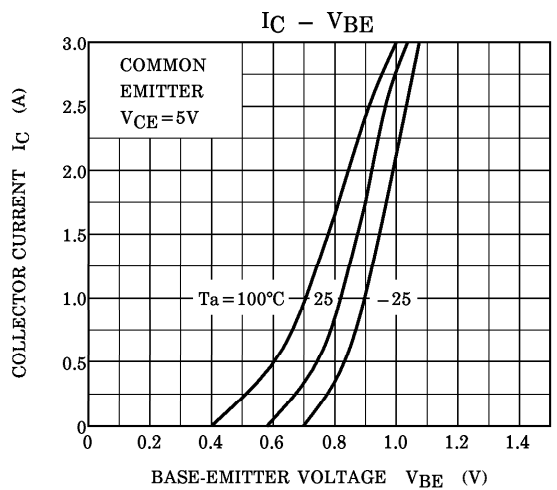
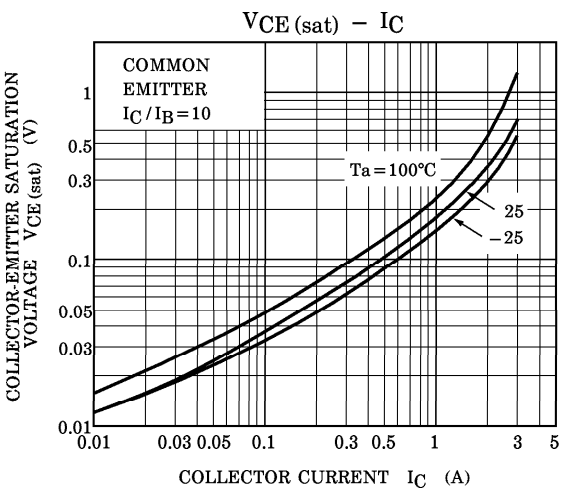
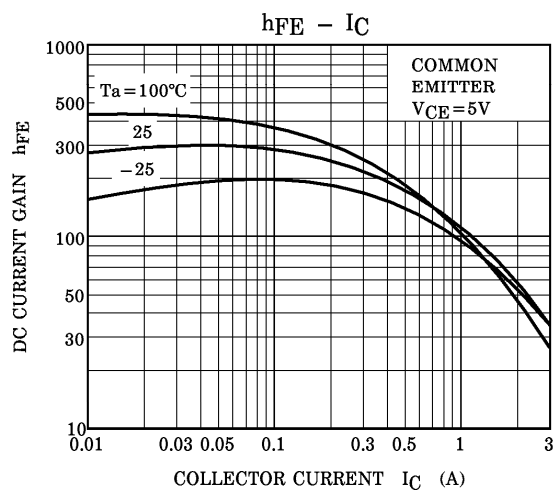
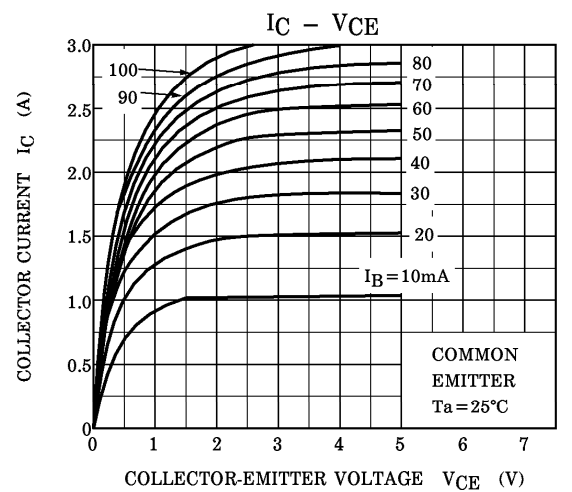
CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	60	V
Collector-Emitter Voltage	V_{CEO}	60	V
Emitter-Base Voltage	V_{EBO}	7	V
Collector Current	I_C	3	A
Base Current	I_B	0.5	A
Collector Power Dissipation	P_C	1.8	W
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature Range	T_{stg}	$-55 \sim 150$	$^\circ C$

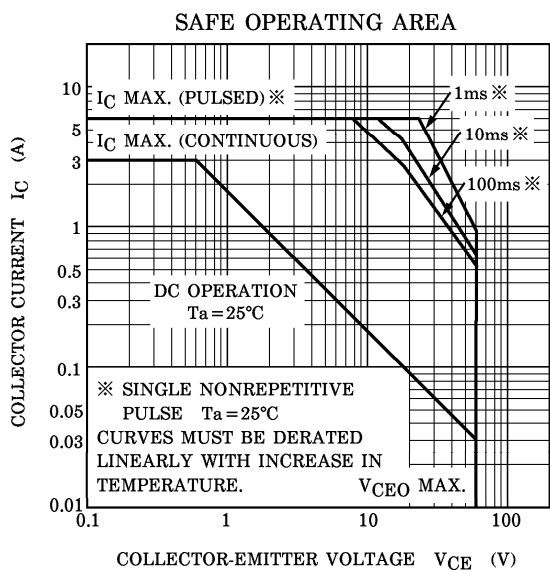


Weight : 1.5g (Typ.)

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = 60V$, $I_E = 0$	—	—	100	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = 7V$, $I_C = 0$	—	—	100	μA
Collector-Emitter Breakdown Voltage	$V_{(BR) CEO}$	$I_C = 50mA$, $I_B = 0$	60	—	—	V
DC Current Gain	h_{FE} (Note)	$V_{CE} = 5V$, $I_C = 0.5A$	100	—	320	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 2A$, $I_B = 0.2A$	—	0.4	1.0	V
Base-Emitter Voltage	V_{BE}	$V_{CE} = 5V$, $I_C = 0.5A$	—	0.75	1.0	V
Transition Frequency	f_T	$V_{CE} = 5V$, $I_C = 0.5A$	—	3.0	—	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = 10V$, $I_E = 0$, $f = 1MHz$	—	35	—	pF





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