

TOSHIBA**2SB1556**

TOSHIBA TRANSISTOR SILICON PNP EPITAXIAL TYPE (DARLINGTON POWER TRANSISTOR)

2SB1556

Unit in mm

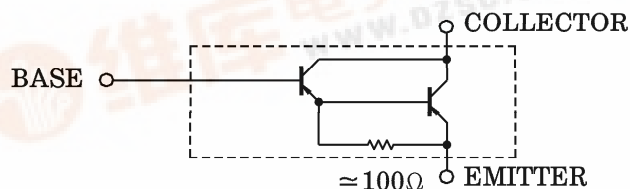
○ POWER AMPLIFIER APPLICATIONS

- High Breakdown Voltage : $V_{CEO} = -140V$ (Min.)
- Complementary to 2SD2385

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	-140	V
Collector-Emitter Voltage	V_{CEO}	-140	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-8	A
Base Current	I_B	-0.1	A
Collector Power Dissipation ($T_c = 25^\circ C$)	P_C	120	W
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature Range	T_{stg}	-55~150	$^\circ C$

EQUIVALENT CIRCUIT



JEDEC		—
EIAJ		—
TOSHIBA		2-21F1A

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-Off Current	I_{CBO}	$V_{CB} = -140V, I_E = 0$	—	—	-5.0	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB} = -5V, I_C = 0$	—	—	-5.0	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -50mA, I_B = 0$	-140	—	—	V
DC Current Gain	$h_{FE}(1)$ (Note)	$V_{CE} = -5V, I_C = -7A$	5000	—	30000	—
	$h_{FE}(2)$	$V_{CE} = -5V, I_C = -12A$	2000	—	—	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -7A, I_B = -7mA$	—	—	-2.5	V
Base-Emitter Voltage	V_{BE}	$V_{CE} = -5V, I_C = -7A$	—	—	-3.0	V
Transition Frequency	f_T	$V_{CE} = -5V, I_C = -1A$	—	30	—	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10V, I_E = 0, f = 1MHz$	—	170	—	pF

Note : h_{FE} (1) Classification A : 5000~12000, B : 9000~18000, C : 15000~30000

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