Transistor

Silicon PNP Epitaxial Type (PCT Process)

Power Amplifier Applications

Features

- Complementary to 2SD2155
- Recommend for 100W High Fidelity Audio Frequency
 - Amplifier Output Stage

Absolute Maximum Ratings (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT	
Collector-Base Voltage	V _{CBO}	-180	٧	
Collector-Emitter Voltage	V _{CEO}	-180	V	
Emitter-Base Voltage	V _{EBO}	-5	V	
Collector Current	lc	-15	Α	
Base Current	Ι _Β	-1.5	А	
Collector PowerDissipation (Tc = 25°C)	Pc	150	W	
Junction Temperature	Tj	150	°C	
Storage Temperature Range	T _{stg}	-55 ~ 150	°C	

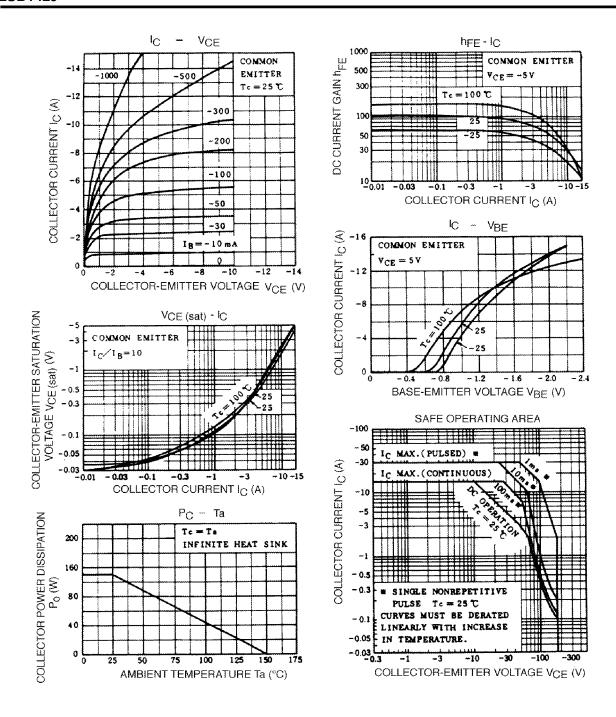
Weight: 9.7g

Electrical Characteristics (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I _{CBO}	$V_{CB} = -180V, I_E = 0$	-	-	-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)	$I_C = -50 \text{mA}, I_B = 0$	-180	-	-	V
DC Current Gain	h _{FE(1)(Note)}	$V_{CE} = -5V, I_{C} = -1A$	55	-	160	
	h _{FE(2)}	$V_{CE} = -5V, I_{C} = -6A$	30	-		
Collector-Emitter Satiration Voltage	V _{CE(sat)}	$I_C = -8A$, $I_B = -0.8A$	ı	-	-3.0	V
Base-Emitter Voltage	V _{BE}	$V_{CE} = -5V, I_{C} = -6A$	-	-	-1.5	V
Transition Frequency	f _T	$V_{CE} = -5V, I_{C} = -1A$	-	10	-	MHz
Collector Output Capacitance	C _{ob}	$V_{CB} = -10V$, $I_E = 0$, $f = 1MHz$	-	340	-	pF

Note: h_{FE} (1) Classification R : 0: 55 ~ 110, 0 : 80 ~ 160

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