# **Discrete Semiconductors**

## **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 <sub>CBO</sub>	-180	٧	
Collector-Emitter Voltage	V <sub>CEO</sub>	-180	V	
Emitter-Base Voltage	V <sub>EBO</sub>	-5	V	
Collector Current	lc	-15	Α	
Base Current	IB	-1.5	А	
Collector PowerDissipation (Tc = 25°C)	P <sub>C</sub>	150	W	
Junction Temperature	Tj	150	°C	
Storage Temperature Range	T <sub>stg</sub>	-55 ~ 150	°C	

# 

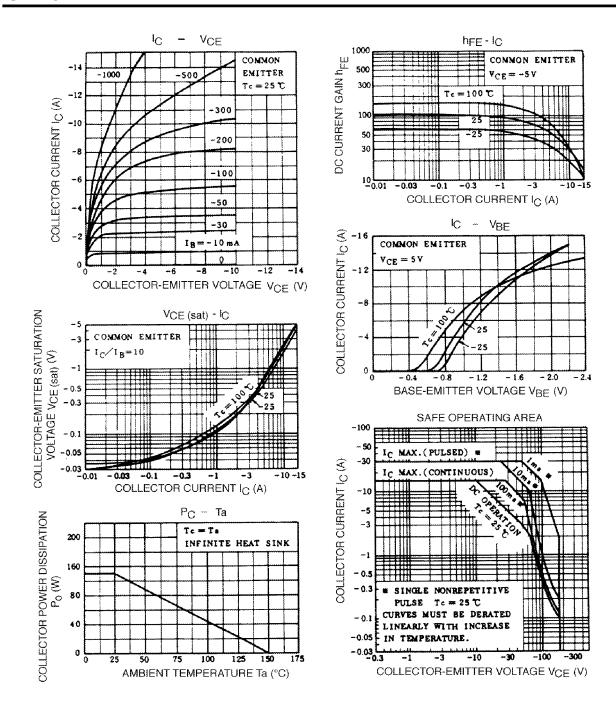
Weight: 9.7g

## Electrical Characteristics (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I <sub>CBO</sub>	$V_{CB} = -180V, I_E = 0$	-	-	-5.0	μА
Emitter Cut-off Current	I <sub>EBO</sub>	$V_{EB} = -5V, I_C = 0$	-	-	-5.0	μА
Collector-Emitter Breakdown Voltage	V <sub>(BR) CEO)</sub>	$I_C = -50 \text{mA}, I_B = 0$	-180	-	_	V
DC Current Gain	h <sub>FE(1)(Note)</sub>	$V_{CE} = -5V, I_{C} = -1A$	55	-	160	
	h <sub>FE(2)</sub>	$V_{CE} = -5V, I_{C} = -6A$	30	-	-	
Collector-Emitter Satiration Voltage	V <sub>CE(sat)</sub>	$I_C = -8A$ , $I_B = -0.8A$	ı	-	-3.0	V
Base-Emitter Voltage	V <sub>BE</sub>	$V_{CE} = -5V, I_{C} = -6A$	-	-	-1.5	V
Transition Frequency	f <sub>T</sub>	$V_{CE} = -5V, I_{C} = -1A$	-	10	-	MHz
Collector Output Capacitance	C <sub>ob</sub>	$V_{CB} = -10V$ , $I_E = 0$ , $f = 1MHz$	-	340	-	pF

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

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