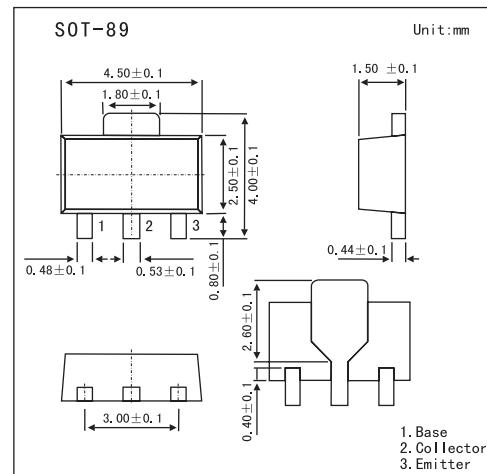


## Medium Power Transistor

### 2SD2537

#### ■ Features

- High DC current gain.
- High emitter-base voltage.
- Low saturation voltage.



#### ■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V <sub>CBO</sub>	30	V
Collector-emitter voltage	V <sub>CEO</sub>	25	V
Emitter-base voltage	V <sub>EBO</sub>	12	V
Collector current	I <sub>C</sub>	1.2	A
Collector power dissipation	P <sub>C</sub>	2	W
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	T <sub>stg</sub>	-55 to +150	°C

#### ■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector-base breakdown voltage	BV <sub>CBO</sub>	I <sub>C</sub> =10µA	30			V
Collector-emitter breakdown voltage	BV <sub>CEO</sub>	I <sub>E</sub> =1mA	25			V
Emitter-base breakdown voltage	BV <sub>EBO</sub>	I <sub>E</sub> =10µA	12			V
Collector cutoff current	I <sub>CBO</sub>	V <sub>CB</sub> =30V			0.3	µA
Emitter cutoff current	I <sub>EBO</sub>	V <sub>EB</sub> =12V			0.3	µA
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =500mA, I <sub>B</sub> =10mA			0.3	V
DC current transfer ratio	h <sub>FE</sub>	V <sub>CE</sub> =5V, I <sub>C</sub> =0.5A	820		2700	
Output capacitance	f <sub>T</sub>	V <sub>CE</sub> =10V, I <sub>E</sub> = -50mA, f=100MHz		200		MHz
Transition frequency	C <sub>ob</sub>	V <sub>CB</sub> =10V, I <sub>E</sub> =0A, f=1MHz		20		pF

#### ■ hFE Classification

Marking	DV	
Rank	V	W
hFE	820~1800	1200~2700