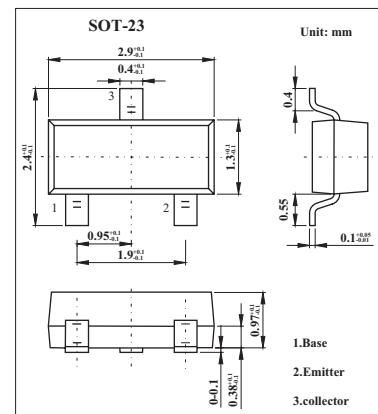


Power Transistor

2SD1757K

■ Features

- Low V_{CE(sat)}. (Typ.8mV at I_c/I_b = 10/1mA).
- Optimal for muting.



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V _{CB0}	30	V
Collector-emitter voltage	V _{CEO}	15	V
Emitter-base voltage	V _{EBO}	6.5	V
Collector current *	I _c	0.5	A
Collector power dissipation	P _c	0.2	W
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector-base breakdown voltage	BV _{CB0}	I _c =50μA	30			V
Collector-emitter breakdown voltage	BV _{CEO}	I _c =1mA	15			V
Emitter-base breakdown voltage	BV _{EBO}	I _e =50μA	6.5			V
Collector cutoff current	I _{CB0}	V _{CB} =20V			0.5	μA
Emitter cutoff current	I _{EBO}	V _{EB} =4V			0.5	μA
Collector-emitter saturation voltage	V _{CE(sat)}	I _c /I _b =500mA/50mA		0.1	0.4	V
DC current transfer ratio	h _{FE}	V _{CE} =3V, I _c =100mA	120		560	
Output capacitance	f _T	V _{CE} =5V, I _e = -50mA, f=100MHz		150		MHz
Transition frequency	C _{ob}	V _{CB} =10V, I _e =0A, f=1MHz		15		pF

■ hFE Classification

Marking	AA		
Rank	Q	R	S
hFE	120~270	180~390	270~560