Power Transistor (15V, 0.5A) 2SD1757K

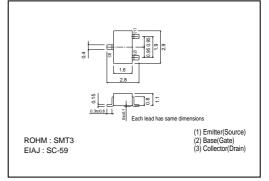
Features

- 1) Low VCE(sat). (Typ.8mV at Ic/IB = 10/1mA)
- 2) Optimal for muting.

•Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Limits	Unit
Collector-base voltage	Vсво	30	V
Collector-emitter voltage	VCEO	15	V
Emitter-base voltage	Vebo	6.5	V
Collector current	lc	0.5	A
Collector power dissipation	Pc	0.2	W
Junction temperature	Tj	150	°C
Storage temperature	Tsta	-55~+150	°C

•External dimensions (Units : mm)



Packaging specifications and hFE

Туре	2SD1757K
Package	SMT3
hfe	QRS
Marking	AA *
Code	T146
Basic ordering unit (pieces)	3000
* Denotes hre	

•Electrical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	30	-	-	V	Ic = 50μA
Collector-emitter breakdown voltage	BVCEO	15	-	-	V	Ic = 1mA
Emitter-base breakdown voltage	ВVево	6.5	-	-	V	Iε = 50μA
Collector cutoff current	Ісво	-	-	0.5	μA	Vcb = 20V
Emitter cutoff current	Іево	-	-	0.5	μA	VEB = 4V
Collector-emitter saturation voltage	VCE(sat)	-	0.1	0.4	V	Ic/IB = 500mA/50mA
DC current transfer ratio	hfe	120	-	560	-	Vce/lc = 3V/100mA
Transition frequency	fт	-	150	-	MHz	Vce = 5V , Ie = -50mA , f = 100MHz
Output capacitance	Cob	-	15	-	pF	Vсв = 10V, IE = 0A, f = 1MHz



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