Power Transistor (15V, 0.5A) 2SD1757K

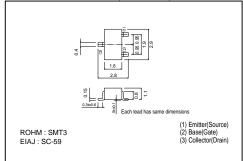
● Features

- 1) Low VcE(sat). (Typ.8mV at Ic/I β = 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	Α
Collector power dissipation	Pc	0.2	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-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	Ιε = 50μΑ	
Collector cutoff current	Ісво	-	-	0.5	μА	VcB = 20V	
Emitter cutoff current	Ієво	-	-	0.5	μА	V _{EB} = 4V	
Collector-emitter saturation voltage	VCE(sat)	-	0.1	0.4	V	Ic/I _B = 500mA/50mA	
DC current transfer ratio	hre	120	-	560	-	Vce/lc = 3V/100mA	
Transition frequency	f⊤	-	150	-	MHz	Vce = 5V , Ie = -50mA , f = 100MHz	
Output capacitance	Cob	-	15	-	pF	Vcb = 10V , IE = 0A , f = 1MHz	

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Appendix1-Rev1.0