Power Transistor (–80V, –4A) 2SB1474

Features

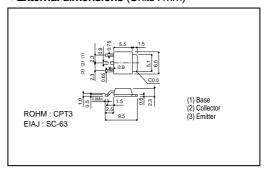
- 1) Darlington connection for a high hre.
- 2) Built-in resistor between base and emitter.
- 3) Built-in damper doide.

● Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit	
Collector-base voltage	Vсво	-80	V	
Collector-emitter voltage	Vceo	-80	V	
Emitter-base voltage	VEBO	-7	V	
Collector current		-4	A(DC)	
Collector current	lc lc	-6	Α *	
Callantar navvar dissination	D-	1	W	
Collector power dissipation	Pc 10		W (Tc=25°C)	
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	-55~+150	°C	

^{*} Single pulse, Pw=100ms

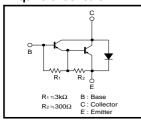
●External dimensions (Units : mm)



●Packaging specifications and hFE

Туре		2SB1474
Package		CPT3
	hfe	1k~10k
Code Basic ordering unit (pieces)		TL
		2500

●Equivalent circuit



●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	-80	-	-	V	Ic=-50μA
Collector-emitter breakdown voltage	BVceo	-80	-	-	V	Ic=-1mA
Collector cutoff current	Ісво	-	-	-100	μΑ	Vcb=-80V
Emitter cutoff current	Ієво	-	-	-3	mA	V _{EB} =-5V
Collector-emitter saturation voltage	VcE(sat)	-	-1	-1.5	V	Ic/Is=-2A/-4mA *1
DC current transfer ratio	hre	1000	5000	10000	-	Vce/lc=-3V/-2A *1
Transition frequency	f⊤	-	12	-	MHz	Vc=-5V, Ie=0.5A, f=10MHz *2
Output capacitance	Cob	-	45	-	pF	Vcb=-10V, IE=0A, f=1MHz

^{*1} Measured using pulse current. *2 Transition frequency of the device.