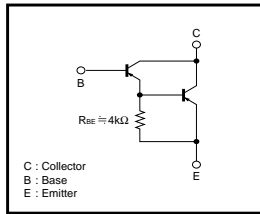Transistors

Power transistor (−40V, −2A)

2SB1183 / 2SB1239

● **Features**

1) Darlington connection for high DC current gain.
2) Built-in 4kΩ resistor between base and emitter.
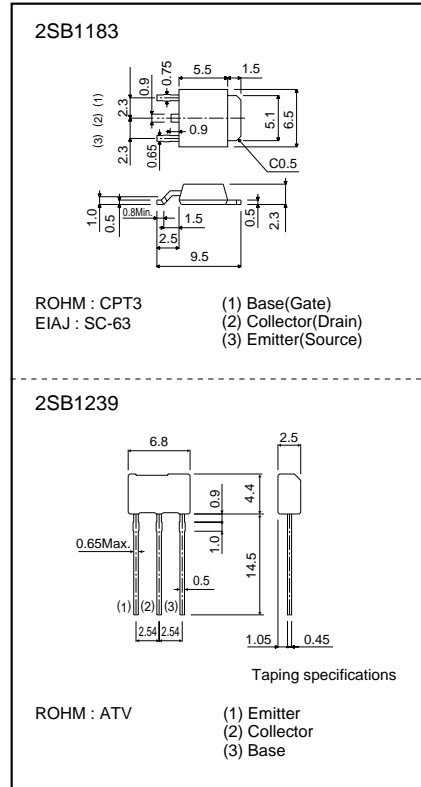3) Complements the 2SD1759 / 2SD1861.

● **Equivalent circuit**

C : Collector
B : Base
E : Emitter

● **External dimensions** (Units : mm)

2SB1183

ROHM : CPT3   (1) Base(Gate)
EIAJ : SC-63   (2) Collector(Drain)
                     (3) Emitter(Source)

2SB1239

Taping specifications

ROHM : ATV   (1) Emitter
                     (2) Collector
                     (3) Base

● **Absolute maximum ratings** (Ta=25°C)

Parameter		Symbol	Limits	Unit	
Collector-base voltage		V_{CBO}	−40	V	
Collector-emitter voltage		V_{CER}	−40	V	
Emitter-base voltage		V_{EBO}	−5	V	
Collector current		I_C	−2	A(DC)	
			−3	A(Pulse)	*1
Collector power dissipation	2SB1183	P_C	1	W	
			10	W(Tc=25°C)	
	2SB1239		1	W	*2
Junction temperature		Tj	150	°C	
Storage temperature		Tstg	−55~+150	°C	

*1 Single pulse Pw=10ms
*2 Printed circuit board 1.7 mm thick, collector plating 100mm² or larger.

● **Packaging specifications and h$_{FE}$**

Type	2SB1183	2SB1239
Package	CPT3	ATV
hFE	1k~200k	1k~
Code	TL	T146
Basic ordering unit (pieces)	2500	2500

● **Electrical characteristics** (Ta=25°C)

Parameter		Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage		BV_{CBO}	−40	–	–	V	I_C=−50μA
Collector-emitter breakdown voltage		BV_{CER}	−40	–	–	V	I_C=−1mA, R_{BE}=10kΩ
Emitter-base breakdown voltage		BV_{EBO}	−5	–	–	V	I_E=−50μA
Collector cutoff current		I_{CBO}	–	–	−1	μA	V_{CB}=−24V
Emitter cutoff current		I_{EBO}	–	–	−1	μA	V_{EB}=−4V
Collector-emitter saturation voltage		$V_{CE(sat)}$	–	–	−1.5	V	I_C/I_B=−0.6A/−1.2mA
DC current transfer ratio	2SB1183	h_{FE}	1000	–	20000	–	V_{CE}/I_C=−2V/−0.5A
	2SB1239		1000	–	–	–	
Output capacitance		Cob	–	11	–	pF	V_{CB}=−10V, I_E=0A, f=1MHz

ROHM

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