

2SB1183 / 2SB1239

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

C : Collector
B : Base
E : Emitter

Parameter		Symbol	Limits	Unit
Collector-base voltage		V_{CB0}	-40	V
Collector-emitter voltage		V_{CEr}	-40	V
Emitter-base voltage		V_{EB0}	-5	V
Collector current		I_c	-2	A(DC)
			-3	A(Pulse) *1
Collector power dissipation	2SB1183	P_c	1	W
			10	W(T(=25°C)
	2SB1239		1	W *2
Junction temperature		T_J	150	°C
Storage temperature		T_{stg}	-55~+150	°C

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

- (1) Base(Gate)
- (2) Collector(Drain)
- (3) Emitter(Source)

- (1) Emitter
- (2) Collector
- (3) Base

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

Parameter		Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage		BV_{CBO}	-40	-	-	V	$I_{CB} = -50\mu A$
Collector-emitter breakdown voltage		BV_{CER}	-40	-	-	V	$I_{CB} = -1mA$, $R_{BE} = 10k\Omega$
Emitter-base breakdown voltage		BV_{EBO}	-5	-	-	V	$I_{EB} = -50\mu A$
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		C_{ob}	-	11	-	pF	$V_{CB} = -10V$, $I_E = 0A$, $f = 1MHz$

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