

2SD2195 / 2SD1980 / 2SD1867 / 2SD2398

- 1) Darlington connection for high DC current gain.
- 2) Built-in resistor between base and emitter.
- 3) Built-in damper diode.
- 4) Complements the 2SB1580 / 2SB1316 / 2SB1567.

Parameter		Symbol	Limits	Unit
Collector-base voltage		V _{CB0}	100	V
Collector-emitter voltage		V _{CE0}	100	V
Emitter-base voltage		V _{EB0}	6	V
Collector current		I _C	2	A(DC)
			3	A(Pulse) *1
Collector power dissipation	2SD2195	P _C	2	W *2
	2SD1980		1	W(T _C =25°C)
	2SD1867		10	
	2SD2398		1	W *3
			2	W(T _C =25°C)
	20			
Junction temperature		T _J	150	°C
Storage temperature		T _{stg}	-55 ~ +150	°C

*1 Single pulse Pw=100ms

*2 When mounted on a 40 x 40 x 0.7 mm ceramic board.

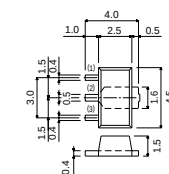
*3 Printed circuit board, 1.7mm thick, collector plating 100mm² or larger.

Type	2SD2195	2SD1980	2SD1867	2SD2398
Package	MP T3	CP T3	AT V	TO-220FN
hFE	1k ~ 10k	1k ~ 10k	1k ~ 10k	1k ~ 10k
Marking	DP *	—	—	—
Code	T100	TL	TV2	—
Basic ordering unit (pieces)	1000	2500	2500	500

* Denotes here

$R_1 = 3.5\text{k}\Omega$ B : Base
 $R_2 = 300\Omega$ C : Collector
 E : Emitter

2SD2195



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

ROHM : MPT3
EIAJ : SC-62

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- (2) Collector(Drain)
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ROHM : CPT3
EIAJ : SC-63

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

ROHM : ATV

Taping specifications

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

ROHM : TO-220FN

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage	BV _{CBO}	100	—	—	V	I _C = 50 μA
Collector-emitter breakdown voltage	BV _{CEO}	100	—	—	V	I _C = 5 mA
Collector cutoff current	I _{CO}	—	—	10	μA	V _{CB} = 100V
Emitter cutoff current	I _{EO}	—	—	3	mA	V _{EB} = 5V
Collector-emitter saturation voltage	V _{CE(sat)}	—	—	1.5	V	I _C = 1A, I _{ES} = 1mA
DC current transfer ratio	h _{FE}	1000	—	10000	—	V _{CE} = 2V, I _E = 1A
Output capacitance	C _{ob}	—	25	—	pF	V _{CB} = 10V, I _E = 0A, f = 1MHz

* Measured using pulse current.

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Datasheets for electronic components.