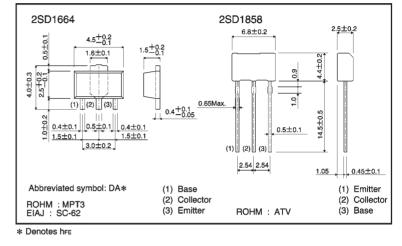
Transistors

Medium Rower Transistor (32V, 1A) 2SD1664 / 2SD1858

Features

- External dimensions (Units: mm)
- 1) Low $V_{CE(sat)}$, $V_{CE(sat)} = 0.15V$ (typical). (Ic/I_B = 500mA/50mA)
- 2) Complements the 2SB1132 / 2SB1237.

•Structure Epitaxial planar type NPN silicon transistor



•Absolute maximum ratings (Ta = 25° C)

Parameter		Symbol	Limits	Unit	
Collector-base voltage		Vсво	40	V	
Collector-emitter voltage		VCEO	32	V	
Emitter-base voltage		Vebo	5	V	
Collector current			1	A(DC)	
		lc	2	A(Pulse)	*1
Collector power dissipation	0001004	Pc	0.5		
	2SD1664		2	W	*2
	2SD1858		1		*3
Junction temperature		Tj	150	ĉ	
Storage temperature		Tstg	-55~+150	Ĵ	

*1 Pw=20ms, duty=1 / 2

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

 $\ast 3$ When it is mounted on the copper clad PCB ~(1.7mm thick) with land size for collector 1 square CM or larger.



•Electrical characteristics (Ta = 25° C)

查词"段。日1664_1"供应	🗃 ymbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	40	_	—	V	Ic=50 μ A
Collector-emitter breakdown voltage	BVCEO	32	_	—	V	Ic=1mA
Emitter-base breakdown voltage	BVEBO	5	_	—	V	Iε=50 μ A
Collector cutoff current	Ісво	—	—	0.5	μA	V _{CB} =20V
Emitter cutoff current	Іево	—	—	0.5	μA	VEB=4V
DC current transfer ratio	hfe	82	_	390	_	Vce=3V, lc=100mA
Collector-emitter saturation voltage	VCE(sat)	_	0.15	0.4	V	Ic/IB=500mA/50mA
Transition frequency	fт	_	150	_	MHz	Vce=5V, le=-50mA, f=100MHz
Output capacitance	Cob	_	15	_	pF	Vcb=10V, le=0A, f=1MHz

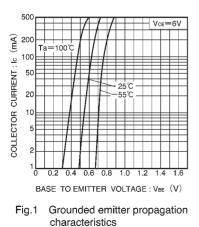
Packaging specifications and hre

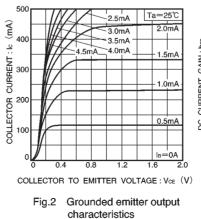
		Package	Taping	
		Code	T 100	TV2
Туре	hfe	Basic ordering unit (pieces)	1000	2500
2SD1664	PQF	ł	0	_
2SD1858	PQR	1	_	0

hFE values are classified as follows :

Item	Р	Q	R
hfe	82~180	120~270	180~390

•Electrical characteristic curves





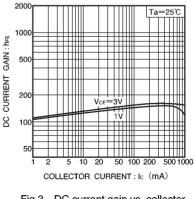
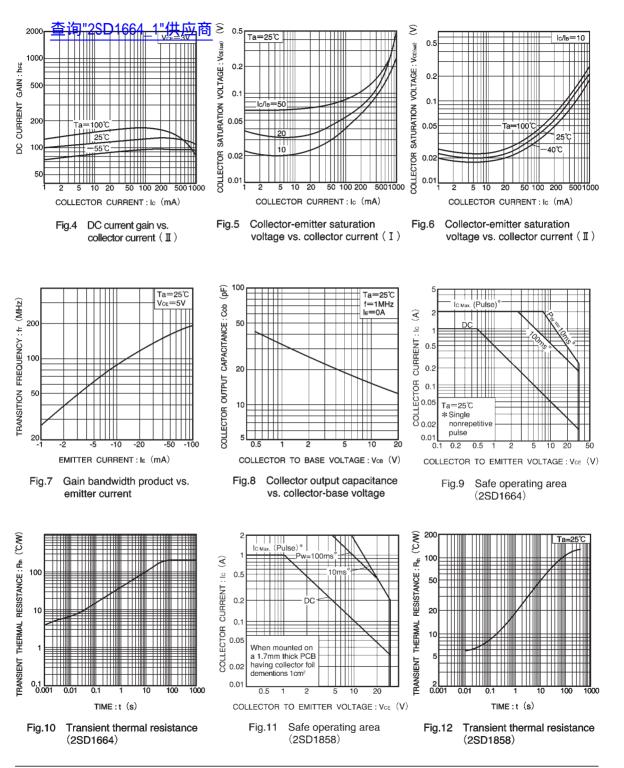


Fig.3 DC current gain vs. collector current (I)



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- Application circuit diagrams and circuit constants contained herein are shown as examples of standard

查询"2SD1664_1 提以留 and deciding upon circuit constants in the set.

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