Low VCE(sat) transistor (strobe flash) 2SD2098 / 2SD2118

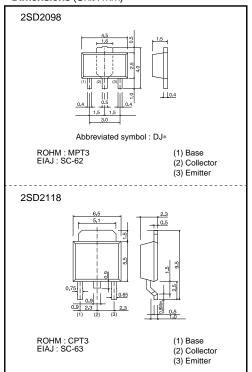
Features

- 1) Low VCE(sat).
- VCE(sat) = 0.25V (Typ.)
- $(I_{C}/I_{B} = 4A/0.1A)$
- 2) Excellent DC current gain characteristics.
- 3) Complements the 2SB1386 / 2SB1412.

Structure

Epitaxial planar type NPN silicon transistor

•Dimensions (Unit : mm)



* Denotes hre

Absolute maximum ratings (Ta=25°C)

Parameter		Symbol	Limits	Unit	
Collector-base voltage		Vсво	50	V	
Collector-emitter voltage		Vceo	20	V	
Emitter-base voltage		Vево	6	V	
Collector current		lc	5	A(DC)	
Collector current			10	A(Pulse) *1	
	2SD2098	Pc	0.5		
Collector power			2	W *2	
dissipation	2SD2118	PC	1		
			10	W(Tc=25°C)	
Junction tempera	Junction temperature		150	°C	
Storage temperature		Tstg	-55 to +150	°C	

*1 Single pulse Pw=10ms *2 When mounted on a 40×40×0.7 mm ceramic board.

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Transistors

•Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	
Collector-base breakdown voltage	ВУсво	50	-	-	V	Ic=50μA	
Collector-emitter breakdown voltage	BVCEO	20	-	-	V	Ic=1mA	
Emitter-base breakdown voltage	ВVево	6	-	-	V	Ιε=50μΑ	
Collector cutoff current	Ісво	-	-	0.5	μA	Vcb=40V	
Emitter cutoff current	Іево	-	-	0.5	μA	Veb=5V	
Collector-emitter saturation voltage	VCE(sat)	-	0.3	1.0	V	Ic/Iв=4A/0.1A	*
DC current transfer ratio	hfe	120	-	390	-	Vce=2V, Ic=0.5A	*
Transition frequency	fт	-	150	-	MHz	Vce=6V, Ie=-50mA, f=100MHz	
Output capacitance	Cob	-	35	-	pF	Vce=20V, Ie=0A, f=1MHz	

* Measured using pulse current.

Packaging specifications and hre

		Package	Taping		
		Code	T100	TL	
Туре	hfe	Basic ordering unit (pieces)	1000	2500	
2SD2098	QR		0	-	
2SD2118	QR		-	0	

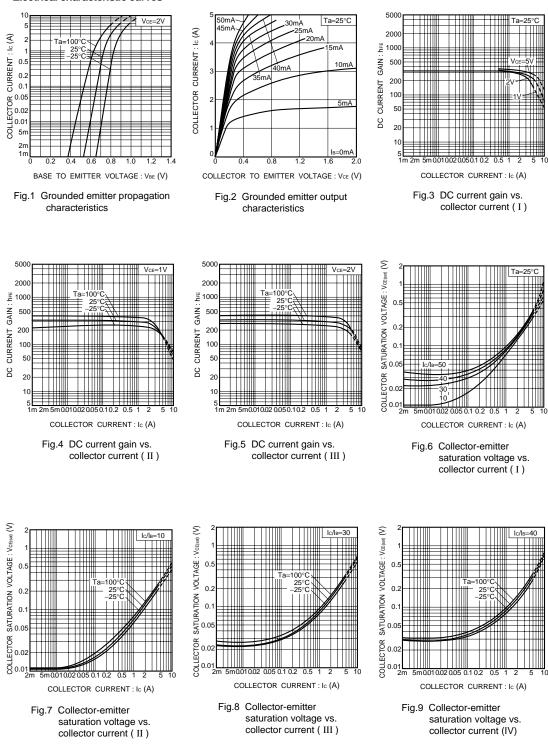
hre values are classified as follows :

Item	Q	R
hfe	120 to 270	180 to 390

2SD2098 / 2SD2118

Transistors

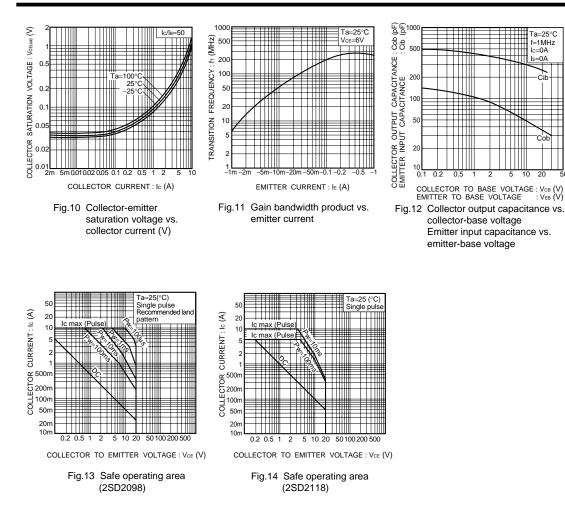




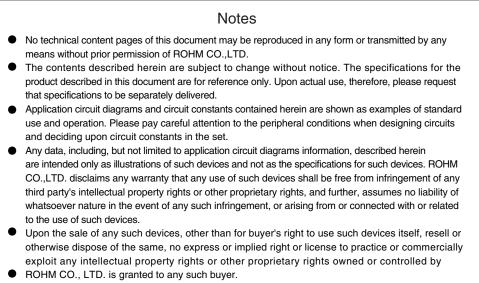
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Transistors

2SD2098 / 2SD2118



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• Products listed in this document are no antiradiation design.

The products listed in this document are designed to be used with ordinary electronic equipment or devices (such as audio visual equipment, office-automation equipment, communications devices, electrical appliances and electronic toys).

Should you intend to use these products with equipment or devices which require an extremely high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), please be sure to consult with our sales representative in advance.

It is our top priority to supply products with the utmost quality and reliability. However, there is always a chance of failure due to unexpected factors. Therefore, please take into account the derating characteristics and allow for sufficient safety features, such as extra margin, anti-flammability, and fail-safe measures when designing in order to prevent possible accidents that may result in bodily harm or fire caused by component failure. ROHM cannot be held responsible for any damages arising from the use of the products under conditions out of the range of the specifications or due to non-compliance with the NOTES specified in this catalog.

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