

捷多邦,专业PCB打样工厂,24小时加急出货

NPN Triple Diffused Planar Silicon Transistor

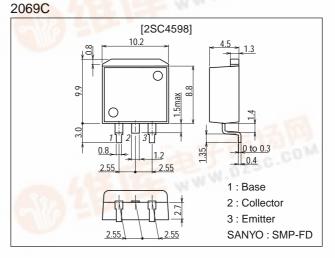


Features

- Surface mount type device making the following possible.
- -Reduction in the number of manufacturing processes for 2SC4598-applied equipment.
- -High density surface mount applications.
- -Small size of 2SC4598-applied equipment.
- High breakdown voltage, high reliability.
- Fast switching speed.
- · Wide ASO.
- · Adoption of MBIT process.

Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		500	V
Collector-to-Emitter Voltage	VCEO		400	V
Emitter-to-Base Voltage	V _{EBO}		7	V
Collector Current	IC		- 7	A
Collector Current (Pulse)	ICP	PW≤300µs, duty cycle≤10%	14	A
Base Current	Ι _Β		3	A
Collector Dissipation	PC		1.65	W
		Tc=25°C	50	W
Junction Temperature	Тј		150	°C
Storage Temperature	Tstg	Co.	-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Onit
Collector Cutoff Current	ICBO	V _{CB} =400V, I _E =0		1 5	10	μA
Emitter Cutoff Current	IEBO	V _{EB} =5V, I _C =0	101-	~	10	μA
DC Current Gain	h _{FE} 1	V _{CE} =5V, I _C =0.8A	15*	4:07	50*	
	h _{FE} 2	V _{CE} =5V, I _C =4A	10			
	h _{FE} 3	V _{CE} =5V, I _C =10mA	10			

*: For the h_{FE}1 of the 2SC4598, specify two ranks or more in principle.

15 L 30 20 M 40 30 N 50

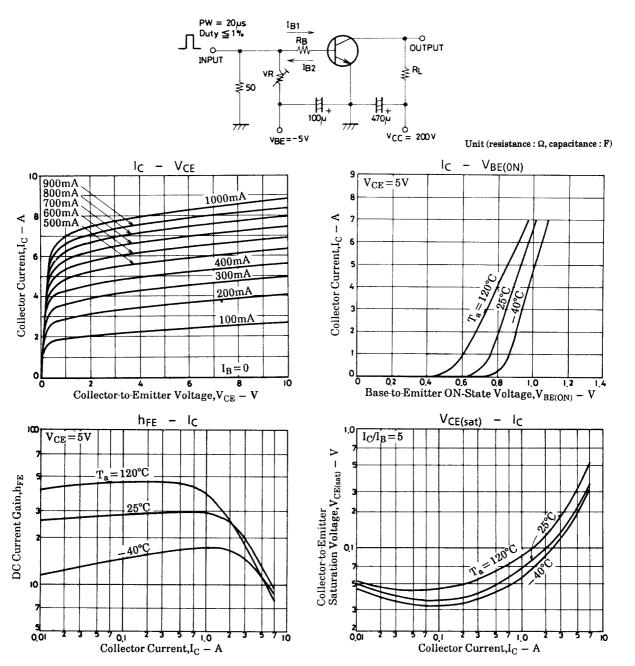
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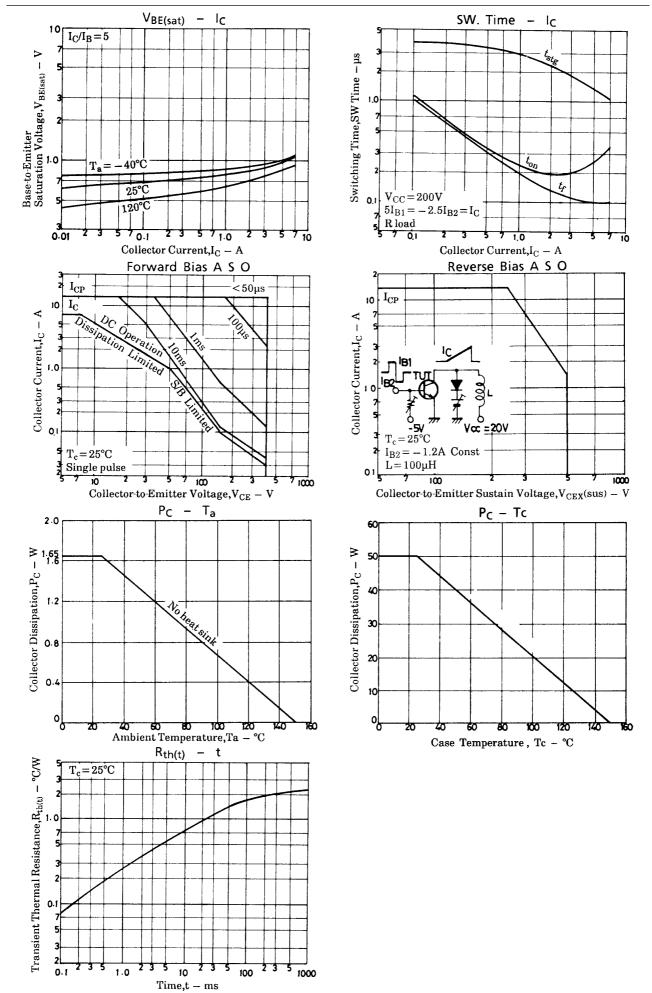
2SC4598

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Gain-Bandwidth Product	fT	V _{CE} =10V, I _C =0.8A		20		MHz
Output Capacitance	Cob	V _{CB} =10V, f=1MHz		80		pF
Collector-to-Emitter Saturation Voltage	VCE(sat)	I _C =4A, I _B =0.8A			0.8	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =4A, I _B =0.8A			1.5	V
Collector-to-Base Breakdown Voltage	V _(BR) CBO	I _C =1mA, I _E =0	500			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	I _C =5mA, R _{BE} =∞	400			V
Emitter-to-Base Breakdown Voltage	V _{(BR)EBO}	I _E =1mA, I _C =0	7			V
Collector-to-Emitter Sustain Voltage	V _{CEX(sus)}	I _C =3A, I _{B1} =–0.3A, L=1mH, I _{B2} =–1.2A, clamped	400			V
Turn-ON Time	ton	I _C =5A, I _{B1} =1A, I _{B2} =-2A, R _L =40Ω, V _{CC} =200V			0.5	μs
Storage Time	^t stg	I _C =5A, I _{B1} =1A, I _{B2} =-2A, R _L =40Ω, V _{CC} =200V			2.5	μs
Fall Time	tf	I _C =5A, I _{B1} =1A, I _{B2} =-2A, R _L =40Ω, V _{CC} =200V			0.3	μs

Switching Time Test Circuit



2SC4598



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