Ordering number: EN5762

NPN Triple Diffused Planar Silicon Transistor



2SC5420

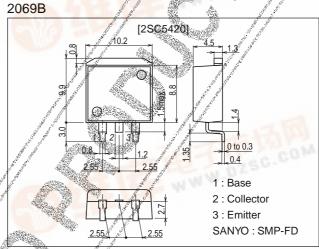
Inverter Lighting Applications

Features

- · High breakdown voltage (V_{CBO}=1000V).
- · High reliability (Adoption of HVP process).
- · Adoption of MBIT process.

Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	The All I.	Symbol Conditions Conditions	Ratings	Unit
Collector-to-Base Voltage		VCBO	1000	V
Collector-to-Emitter Voltage		VERO	450	V
Emitter-to-Base Voltage		V _E BO	9	V
Collector Current		// lc	5	Α
Collector Current (Pulse)	, s ^è	ICP.	10	Α
Collector Dissipation	end sed		1.75	W
	Start Start	T6=25°C	50	W
Junction Temperature	1 3	T T	150	°C
Storage Temperature	11 -2	Tstg	-55 to +150	°C

Electrical Characteristics at Ta = 25°C

	Symbol	Conditions	Ratings			Unit
raianieta			min	typ	max	Offic
Collector Cutoff Current	ICBO	V _{CB} =450V, I _E =0			10	μΑ
Collector Cutoff Current	ICES.	V _{CE} =1000V, R _{BE} =0			1.0	mA
Collector-to-Emitter Sastain Voltage	V _C EO(sus)	I _C =100mA, I _B =0	450			V
Emitter Cutoff Current	[∫] l∉BO	V _{EB} =9V, I _C =0	-12-	407	1.0	mA
Collector-to-Emitter Saturation Voltage	VCE(sat)	I _C =2.5A, I _B =0.5A	At At	-	1.0	V
Base-to-Emitter Saturation Voltage	VBE(sat)	I _C =2.5A, I _B =0.5A			1.5	V

Continued on next page.

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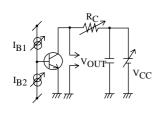
SANYO Electric Co.,Ltd. Semiconductor Bussiness Headquaters

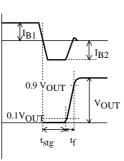
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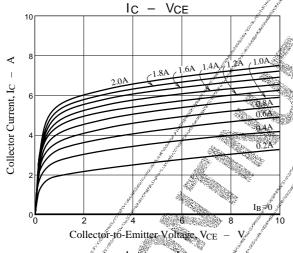
Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	Offic
DC Current Gain	h _{FE} 1	V _{CE} =5V, I _C =0.3A	30	40	50	
	h _{FE} 2	V _{CE} =5V, I _C =2.0A	10			
Storage Time	t _{stg}	I _C =2.5A, I _{B1} =0.5A, I _{B2} =-1.0A	1	100	2.5	μs
Fall Time	t _f	I _C =2.5A, I _{B1} =0.5A, I _{B2} =-1.0A	And Service	and the state of t	0.15	μs

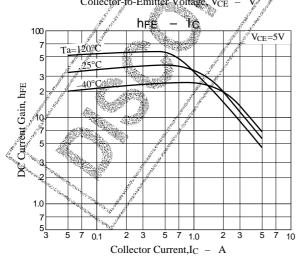
Collector Current, Ic

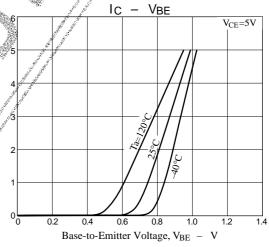
Switching Time Test Circuit

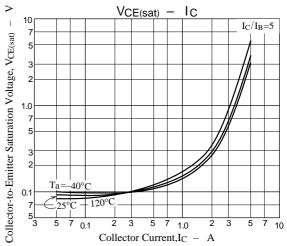


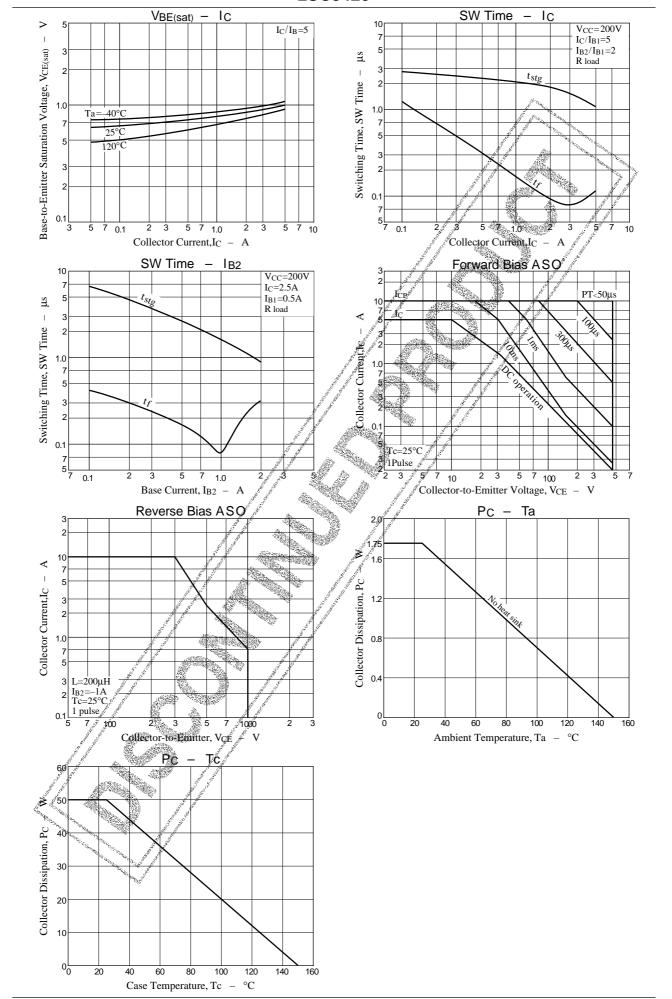


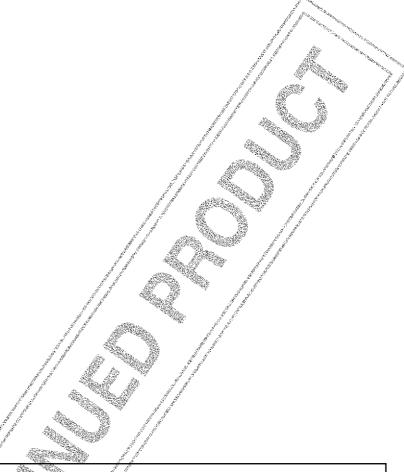












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