捷多邦,专业PCB打样工厂,24小时加急出货

查询2SC4675供应商 Ordering number:EN3708

NPN Epitaxial Planar Silicon Transistor

2SC4675

20V/8A Switching Applications

Features

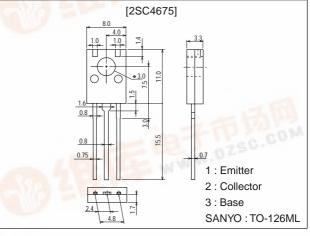
- · Adoption of MBIT process.
- · Low saturation voltage.
- · Fast switching speed.
- \cdot Large current capacity.

Package Dimensions

unit:mm

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Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		30	V
Collector-to-Emitter Voltage	VCEO		20	V
Emitter-to-Base Voltage	V _{EBO}	111	5	V
Collector Current	۱ _C		8	A
Collector Current (Pulse)	ICP	and the second	12	А
Base Current	Ι _Β		1.5	A
Collector Dissipation	PC		1.5	W
		Tc=25°C	10	W
Junction Temperature	Тј		150	°C
Storage Temperature	Tstg	Con.	-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Collector Cutoff Current	ICBO	V _{CB} =20V, I _E =0		1.75	1	μΑ
Emitter Cutoff Current	IEBO	V _{EB} =4V, I _C =0	22-		1	μA
DC Current Gain	h _{FE} 1	V _{CE} =2V, I _C =500mA	100*	10.10	400*	
	h _{FE} 2	$V_{CE}=2V, I_{C}=6A$	70			

* : The 2SC4675 is classified by 500mA h_{FE} as follows.

100 R 200 140 S 280 200 T 400

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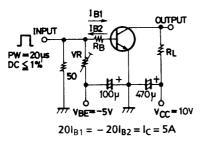
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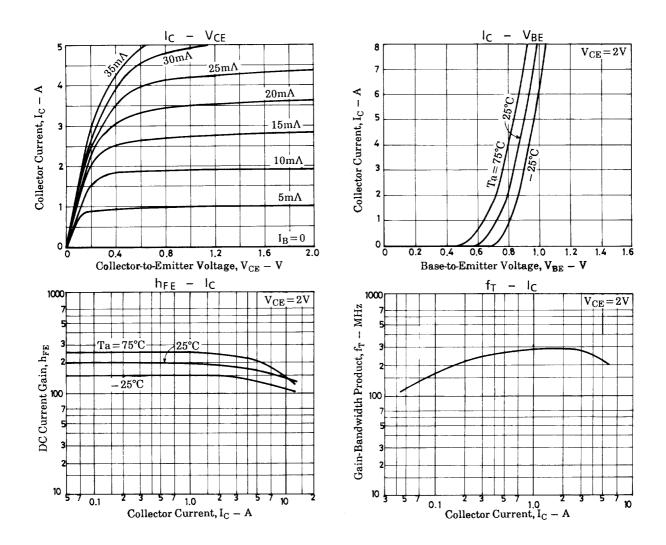
2SC4675

Parameter	Symbol	Conditions		Ratings		
	Symbol		min	typ	max	Unit
Gain-Bandwidth Product	fT	V _{CE} =2V, I _C =500mA		250		MHz
Output Capacitance	C _{ob}	V _{CB} =10V, f=1MHz		60		pF
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =5A, I _B =250mA		220	400	mV
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =5A, I _B =250mA		1	1.3	V
Collector-to-Base Breakdown Voltage	V(BR)CBO	I _C =10µA, I _E =0	30			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	I _C =1mA, R _{BE} =∞	20			V
Emitter-to-Base Breakdown Voltage	V(BR)EBO	I _E =10µA, I _C =0	5			V
Turn-ON Time	ton	See specified test circuit.		30		ns
Storage Time	t _{stg}	See specified test circuit.		250		ns
Fall Time	t _f	See specified test circuit.		15		ns

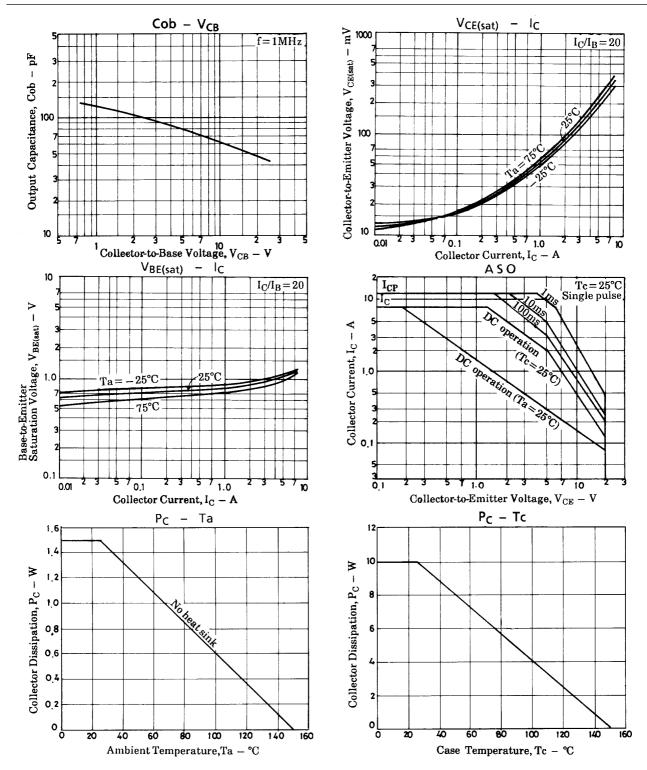
Switching Time Test Circuit



Unit (resistance : Ω , capacitance : F)



2SC4675



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