2SC3466



Switching Regulator Applications

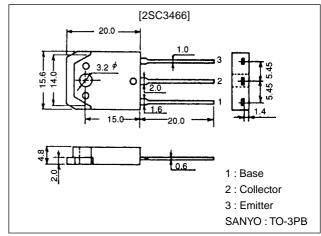
Features

- · High breakdown voltage and high reliability.
- · Fast switching speed.
- · Wide ASO.

Package Dimensions

unit:mm

2022A



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		1200	V
Collector-to-Emitter Voltage	VCEO		650	V
Emitter-to-Base Voltage	V _{EBO}		7	V
Collector Current	IC		8	Α
Collector Current (Pulse)	I _{CP}	PW≤300μs, Duty Cycle≤10%	20	Α
Base Current	I _B		3	Α
Collector Dissipation	PC	Tc=25°C	120	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	Offic
Collector Cutoff Current	I _{CBO}	V _{CB} =650V, I _E =0			100	μA
Emitter Cutoff Current	I _{EBO}	V _{EB} =5V, I _C =0			100	μA
DC Current Gain	h _{FE} 1	V _{CE} =5V, I _C =1A	10*		40*	
	h _{FE} 2	V _{CE} =5V, I _C =4A	6			
Gain-Bandwidth Product	fT	V _{CE} =10V, I _C =1A		5		MHz
Output Capacitance	C _{ob}	V _{CB} =10V, f=1MHz		120		pF

 $\overline{*}$: The 2SC3466 is classified by 1A h_{FE} as follows:

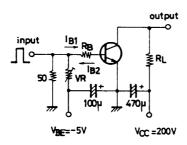
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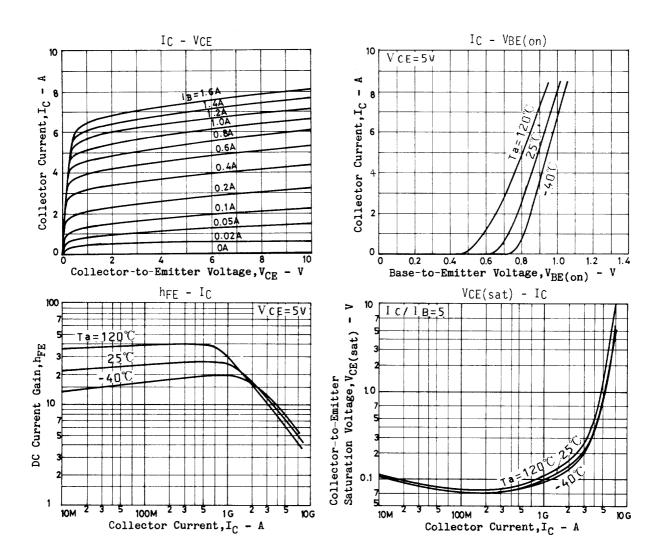
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector-to-Emitter Saturation Voltage	VCE(sat)	I _C =4A, I _B =0.8A			3.0	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =4A, I _B =0.8A			1.5	V
Collector-to-Base Breakdown Voltage	V(BR)CBO	I _C =1mA, I _E =0	1200			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	I _C =5mA, R _{BE} =∞	650			V
Emitter-to-Base Breakdown Voltage	V(BR)EBO	I _E =1mA, I _C =0	7			V
Turn-ON Time	ton	V _{CC} =200V, 5l _{B1} =-2.5l _{B2} =l _C =4A, R _L =50Ω			1.0	μs
Storage Time	t _{stg}	V_{CC} =200V, $5I_{B1}$ =-2. $5I_{B2}$ = I_{C} =4A, R_{L} = 50Ω			4.0	μs
Fall Time	t _f	V_{CC} =200V, $5I_{B1}$ =-2. $5I_{B2}$ = I_{C} =4A, R_{L} = 50Ω			0.7	μs

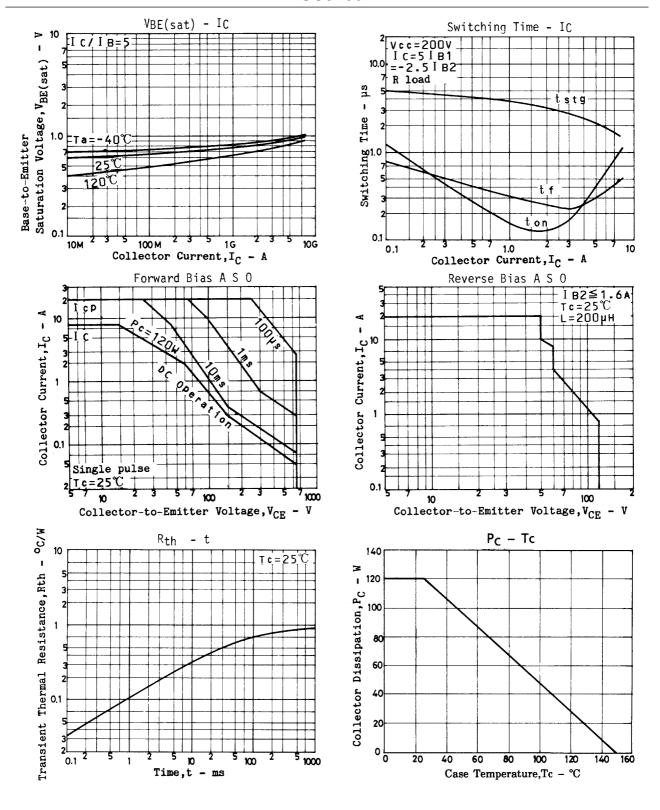
Switching Time Test Circuit

PW=20µs, duty factor≤1%



Unit (resistance : Ω , capacitance : F)





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