Ordering number: EN3235

NPN Epitaxial Planar Silicon Transistor



2SC4482

High-Current Switching Applications

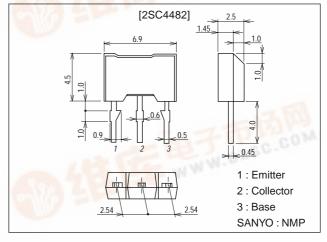
Features

- · Low saturation voltage.
- · Large current capacity.
- · Fast switching speed.

Package Dimensions

unit:mm

2064A



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit	
Collector-to-Base Voltage	V _{CBO}		60	V	
Collector-to-Emitter Voltage	V _{CEO}		20	V	
Emitter-to-Base Voltage	VEBO	pull	6	V	
Collector Current	lc	- 4	5	Α	
Collector Current (Pulse)	I _{CP}	A REAL CORPORATION	8	Α	
Collector Dissipation	PC	AND ARE INC. W	1	W	
Junction Temperature	Tj	WALL THE	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} =50V, I _E =0			100	nA
Emitter Cutoff Current	I _{EBO}	V _{EB} =5V, I _C =0			100	nA
DC Current Gain	h _{FE} 1	V _{CE} =2V, I _C =500mA	140*		560*	177
	h _{FE} 2	V _{CE} =2V, I _C =3A	95		-0.1	,07
Gain-Bandwidth Product	f _T	V _{CE} =10V, I _C =50mA	H-	150		MHz
Output Capacitance	C _{ob}	V _{CB} =10V, f=1MHz	ALM.	45		pF

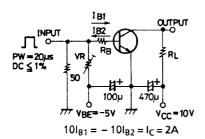
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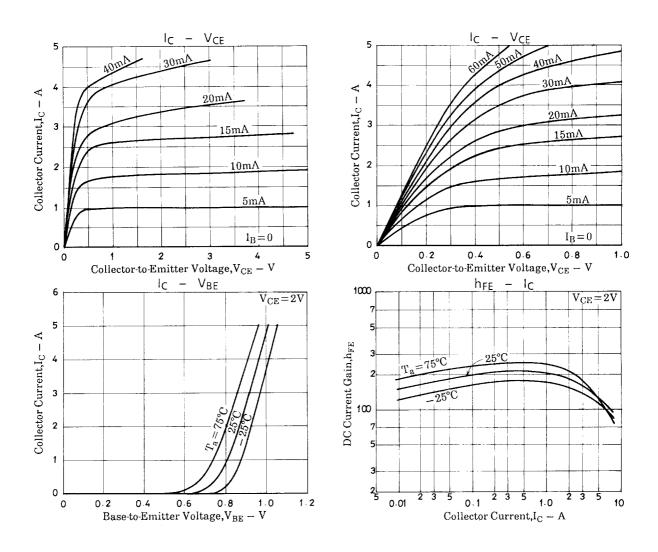
SANYO Electric Co.,Ltd. Semiconductor Bussiness Headquaters

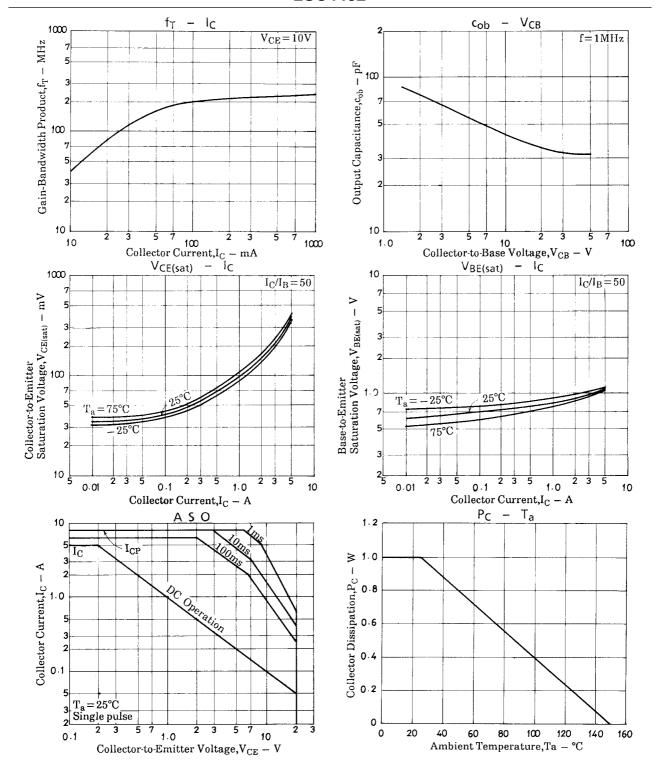
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	J.III
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =3A, I _B =60mA		220	500	mV
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =3A, I _B =60mA			1.5	V
Collector-to-Base Breakdown Voltage	V(BR)CBO	I _C =10μA, I _E =0	60			V
Collector-to-Emitter 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	6			V
Turn-ON Time	ton	See specified test circuit.		30		μs
Storage Time	t _{stg}	See specified test circuit.		300		μs
Fall Time	t _f	See specified test circuit.		40		μs

Switching Time Test Circuit



 $Unit\,(resistance:\Omega, capacitance:F)$





2SC4482

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