

**2SC4482**

High-Current Switching Applications

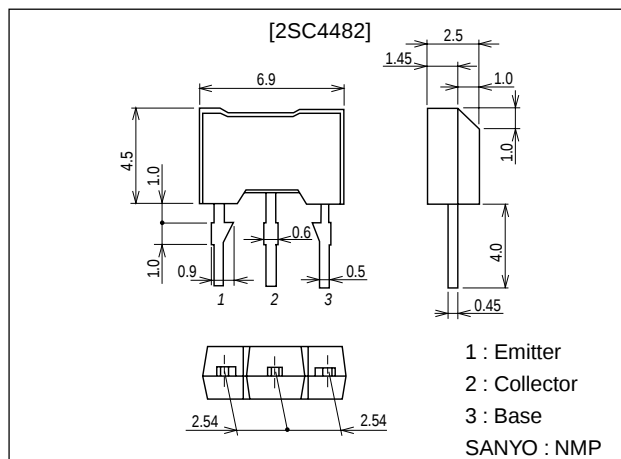
Features

- 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	V_{EBO}		6	V
Collector Current	I_C		5	A
Collector Current (Pulse)	I_{CP}		8	A
Collector Dissipation	P_C		1	W
Junction Temperature	T_J		150	°C
Storage Temperature	T_{stg}		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
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_{FE1}	$V_{CE}=2V, I_C=500mA$	140*		560*	
	h_{FE2}	$V_{CE}=2V, I_C=3A$	95			
Gain-Bandwidth Product	f_T	$V_{CE}=10V, I_C=50mA$		150		MHz
Output Capacitance	C_{ob}	$V_{CB}=10V, f=1MHz$		45		pF

* : The 2SC4482 is classified by 500mA h_{FE} as follows :

140	S	280	200	T	400	280	U	560
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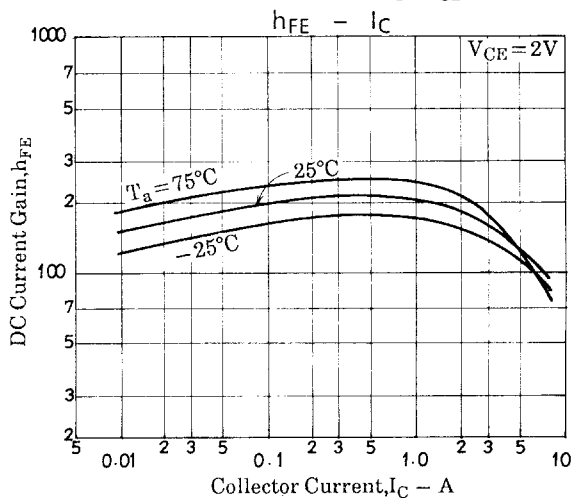
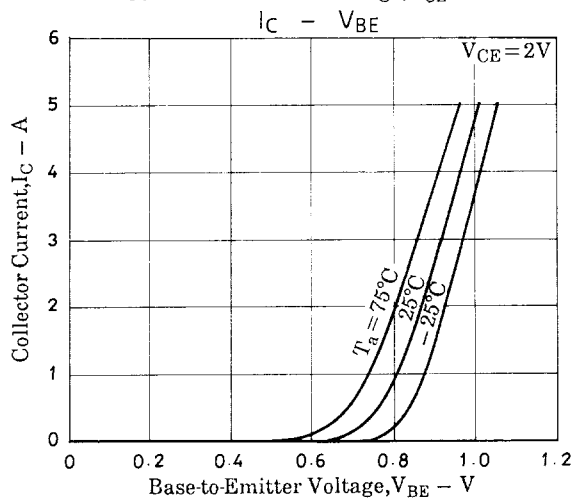
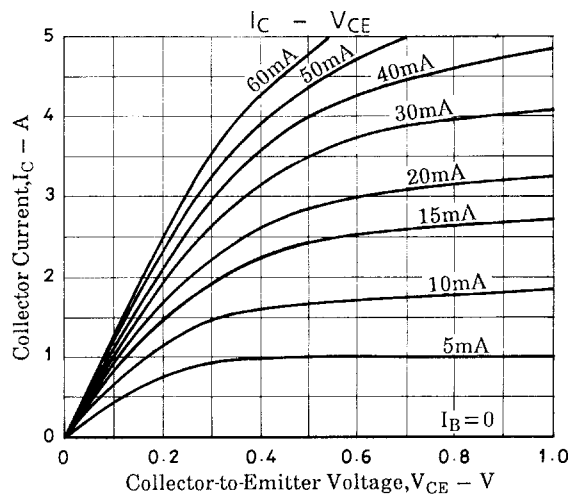
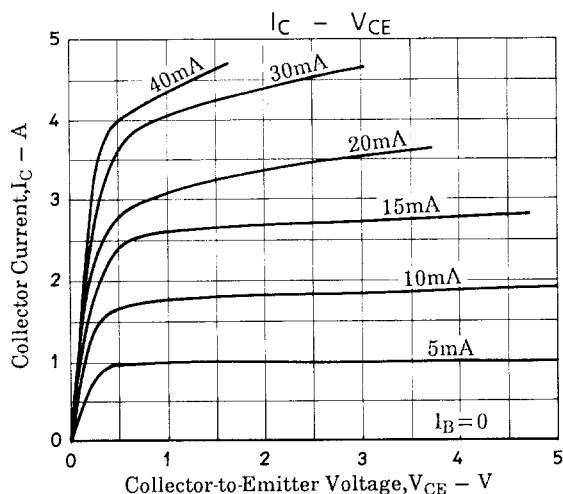
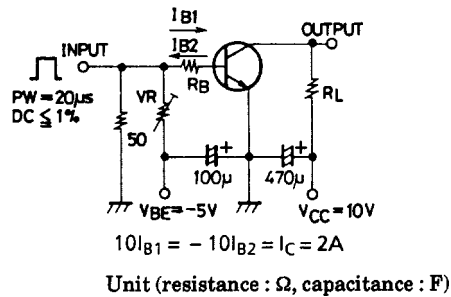
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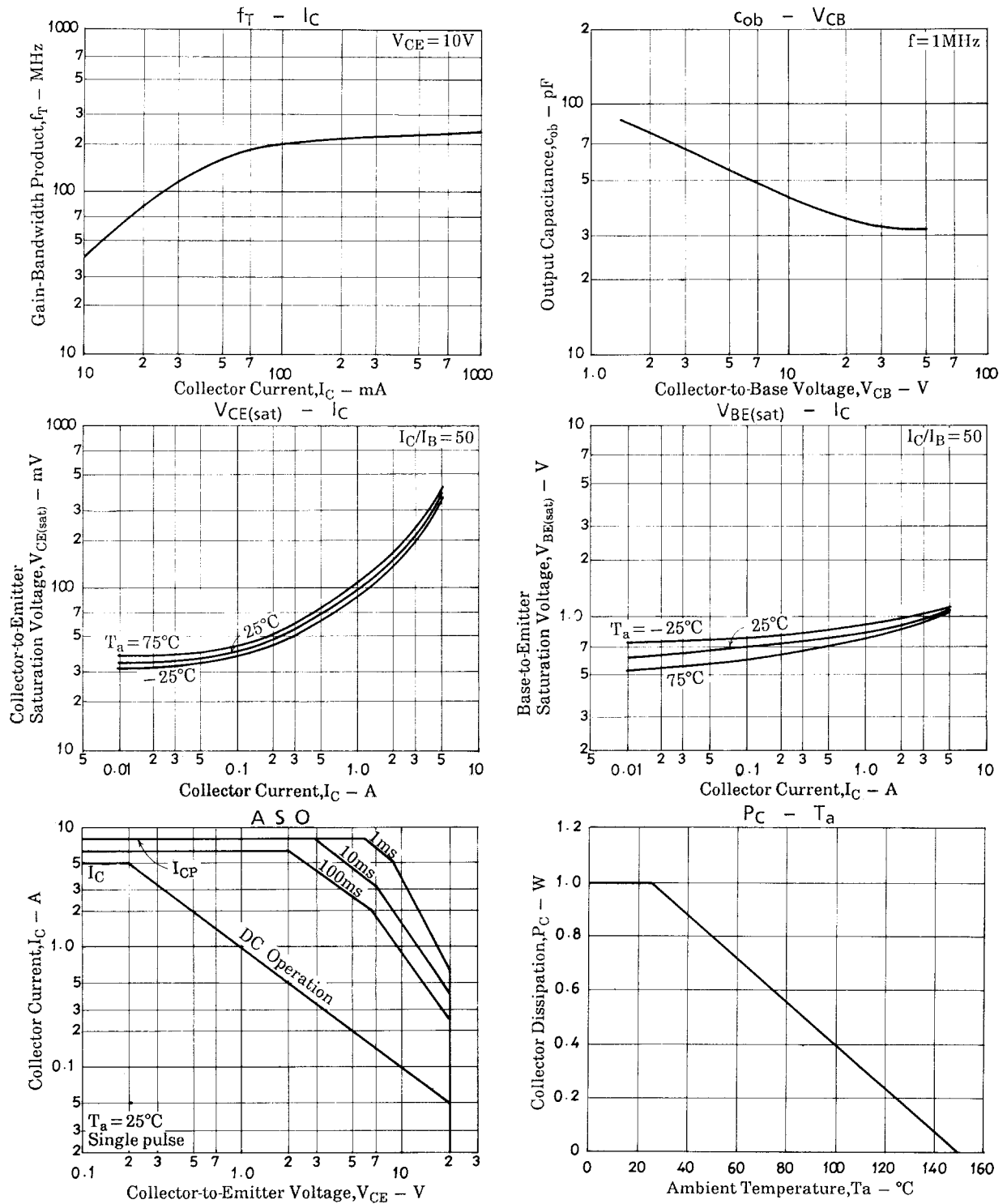
D2598HA (KT)/O269MO, TS No.3235-1/4

2SC4482

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
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	$V_{(BR)CBO}$	$I_C=10\mu A, I_E=0$	60			V
Collector-to-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=1mA, R_{BE}=\infty$	20			V
Emitter-to-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=10\mu A, I_C=0$	6			V
Turn-ON Time	t_{on}	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





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