

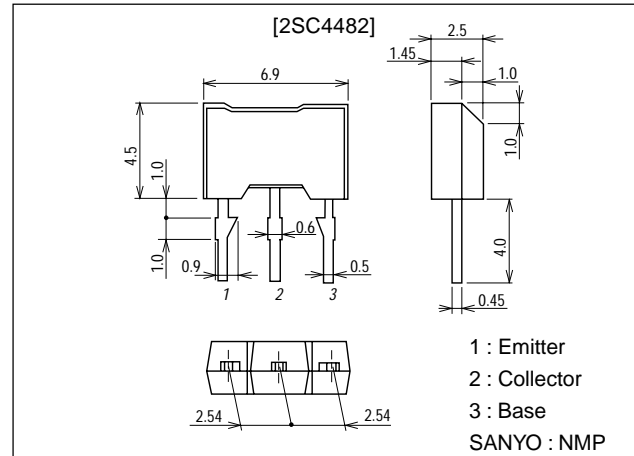
**2SC4482****High-Current Switching Applications****Features**

- 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	$V_{CB0}$		60	V
Collector-to-Emitter Voltage	$V_{CE0}$		20	V
Emitter-to-Base Voltage	$V_{EB0}$		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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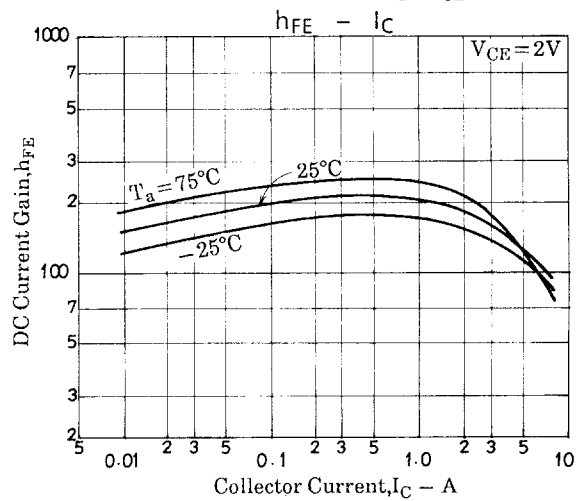
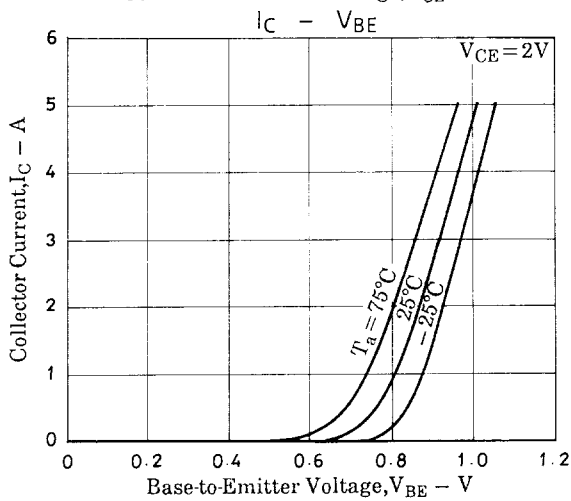
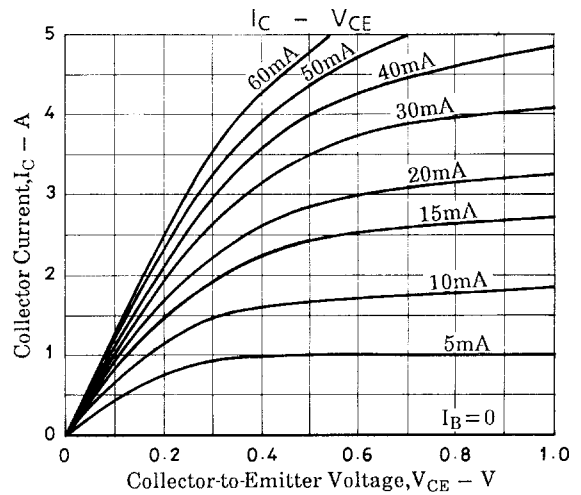
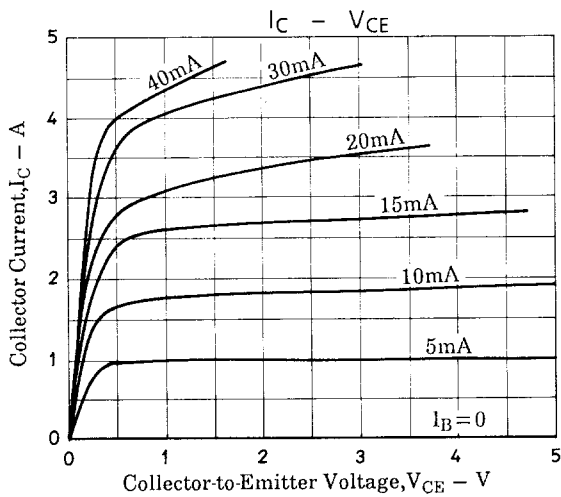
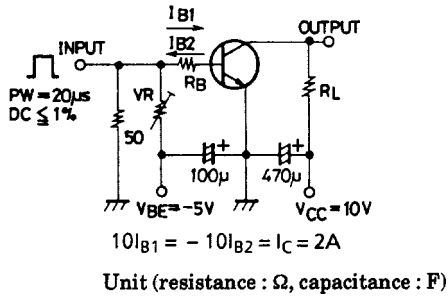
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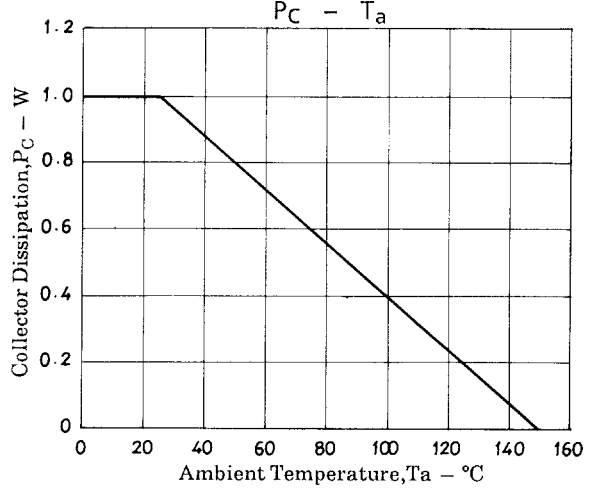
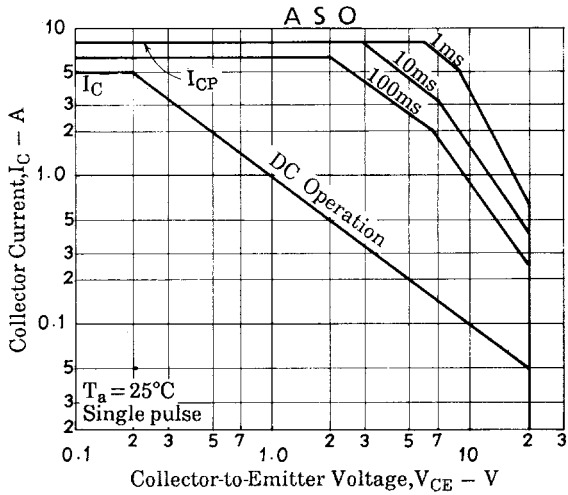
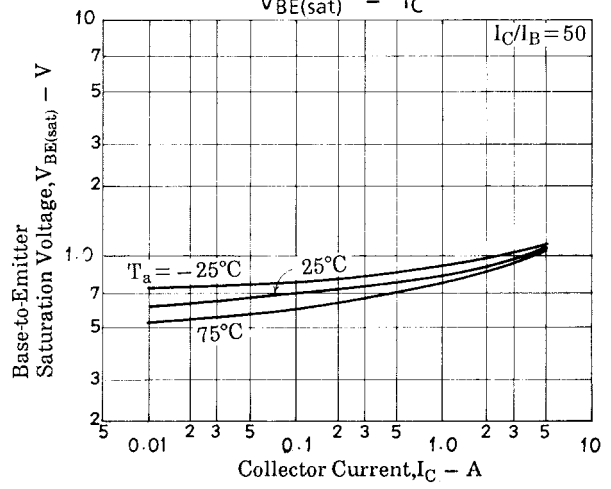
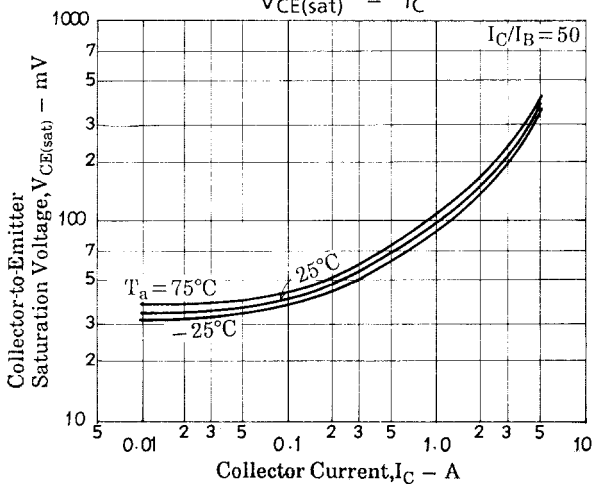
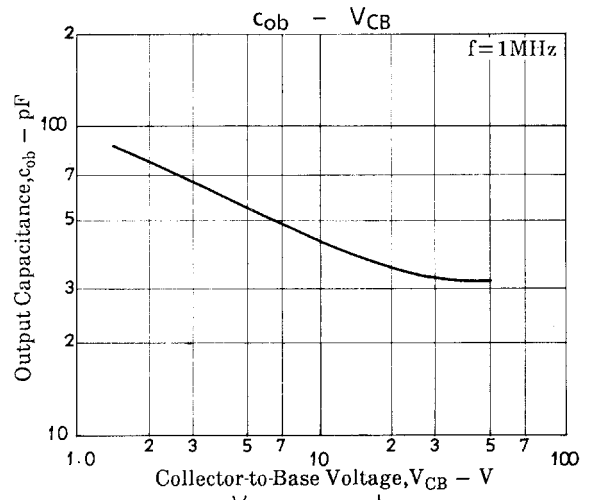
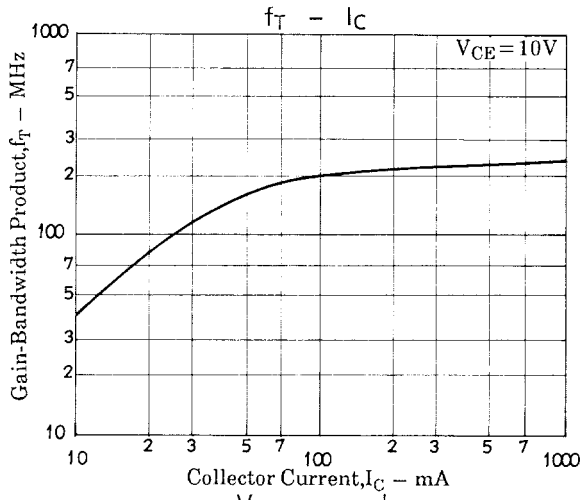
# 2SC4482

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		$\mu s$
Storage Time	$t_{stg}$	See specified test circuit.		300		$\mu s$
Fall Time	$t_f$	See specified test circuit.		40		$\mu s$

## Switching Time Test Circuit



# 2SC4482



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