

<b>SANYO</b>	No.3235	<b>2SC4482</b>
	NPN Epitaxial Planar Silicon Transistor	
High-Current Switching Applications		

**Features**

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

**Absolute Maximum Ratings at Ta = 25°C**

			unit
Collector to Base Voltage	V <sub>CB0</sub>	60	V
Collector to Emitter Voltage	V <sub>CEO</sub>	20	V
Emitter to Base Voltage	V <sub>EBO</sub>	6	V
Collector Current	I <sub>C</sub>	5	A
Collector Current(Pulse)	I <sub>CP</sub>	8	A
Collector Dissipation	P <sub>C</sub>	1	W
Junction Temperature	T <sub>j</sub>	150	°C
Storage Temperature	T <sub>stg</sub>	-55 to +150	°C

**Electrical Characteristics at Ta = 25°C**

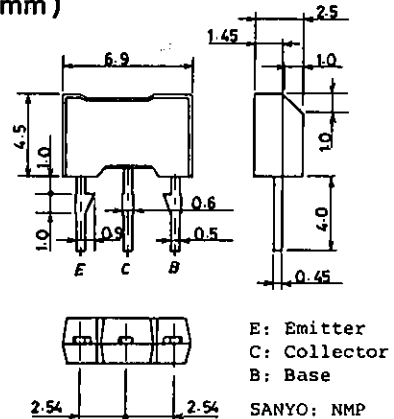
			min	typ	max	unit
Collector Cutoff Current	I <sub>CB0</sub>	V <sub>CB</sub> = 50V, I <sub>E</sub> = 0			100	nA
Emitter Cutoff Current	I <sub>EBO</sub>	V <sub>EB</sub> = 5V, I <sub>C</sub> = 0			100	nA
DC Current Gain	h <sub>FE</sub> (1)	V <sub>CE</sub> = 2V, I <sub>C</sub> = 500mA	140*		560*	
	h <sub>FE</sub> (2)	V <sub>CE</sub> = 2V, I <sub>C</sub> = 3A	95			
Gain-Bandwidth Product	f <sub>T</sub>	V <sub>CE</sub> = 10V, I <sub>C</sub> = 50mA		150		MHz
Output Capacitance	c <sub>ob</sub>	V <sub>CB</sub> = 10V, f = 1MHz		45		pF
C-E Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> = 3A, I <sub>B</sub> = 60mA		220	500	mV
B-E Saturation Voltage	V <sub>BE(sat)</sub>	I <sub>C</sub> = 3A, I <sub>B</sub> = 60mA			1.5	V
C-B Breakdown Voltage	V <sub>(BR)CBO</sub>	I <sub>C</sub> = 10μA, I <sub>E</sub> = 0	60			V
C-E Breakdown Voltage	V <sub>(BR)CEO</sub>	I <sub>C</sub> = 1mA, R <sub>BE</sub> = ∞	20			V
E-B Breakdown Voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> = 10μA, I <sub>C</sub> = 0	6			V
Turn-on Time	t <sub>on</sub>	See specified Test Circuit.		30		ns
Storage Time	t <sub>stg</sub>	∞		300		ns
Fall Time	t <sub>f</sub>	∞		40		ns

\* : The 2SC4482 is classified by 500mA h<sub>FE</sub> as follows :

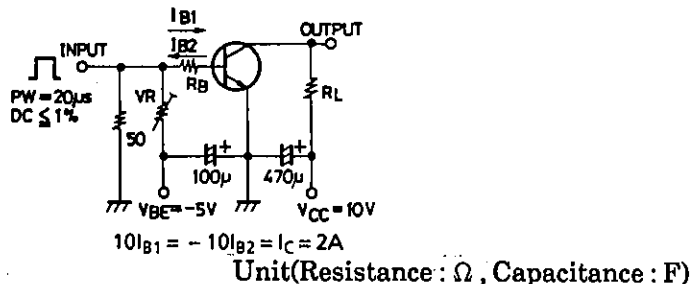
140	S	280	200	T	400	280	U	560
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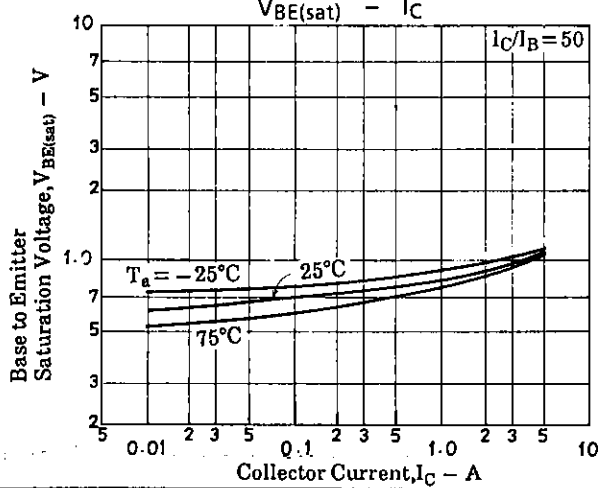
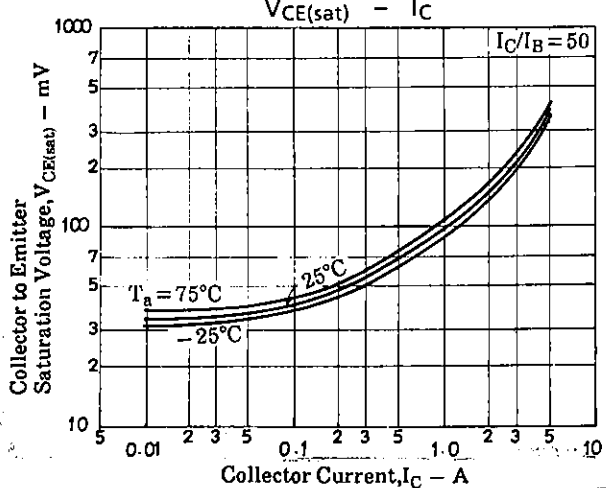
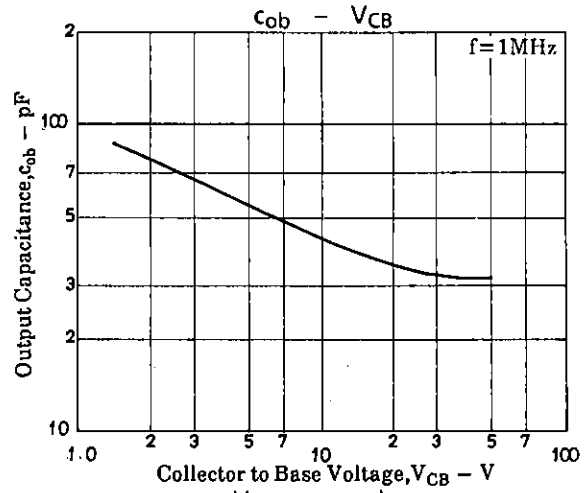
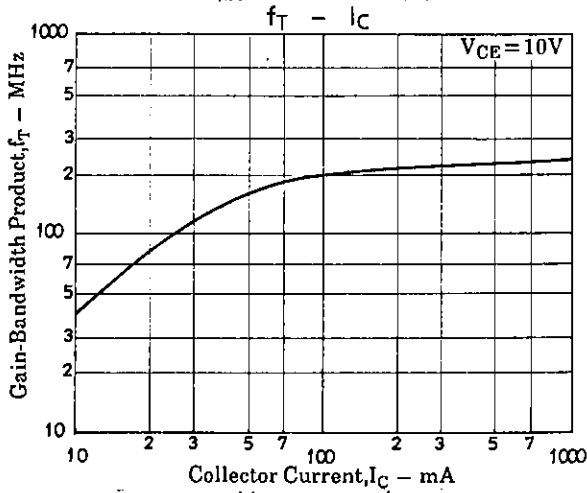
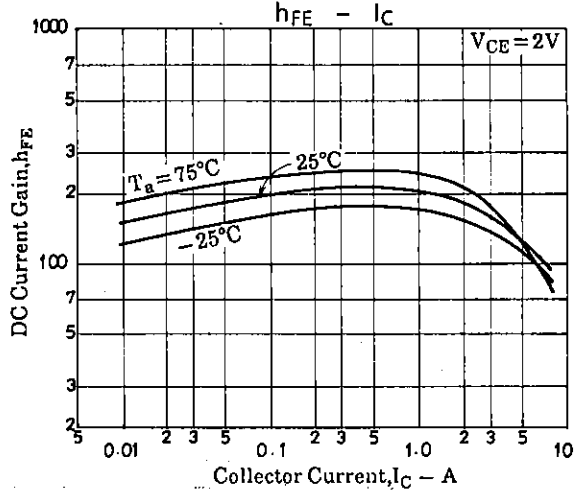
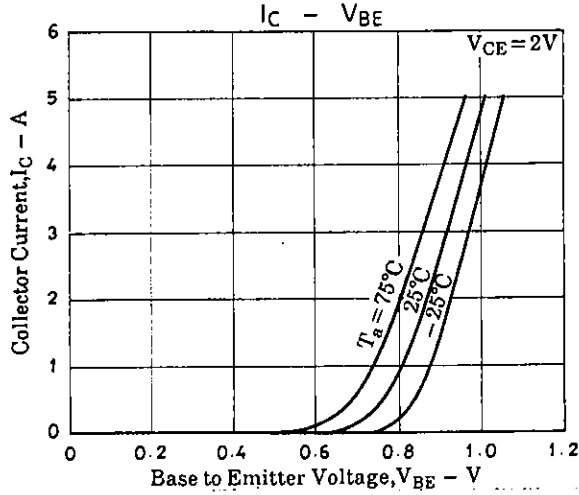
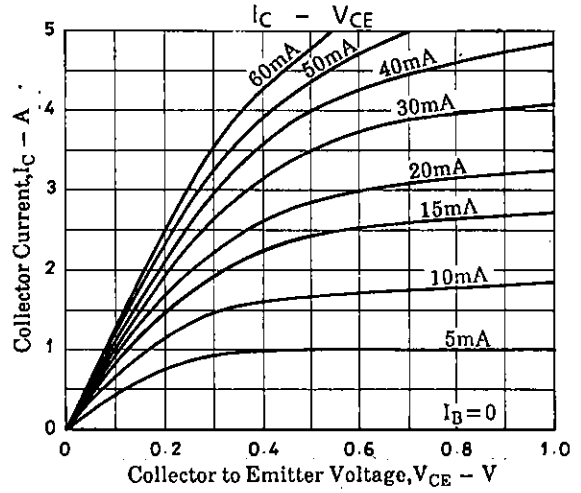
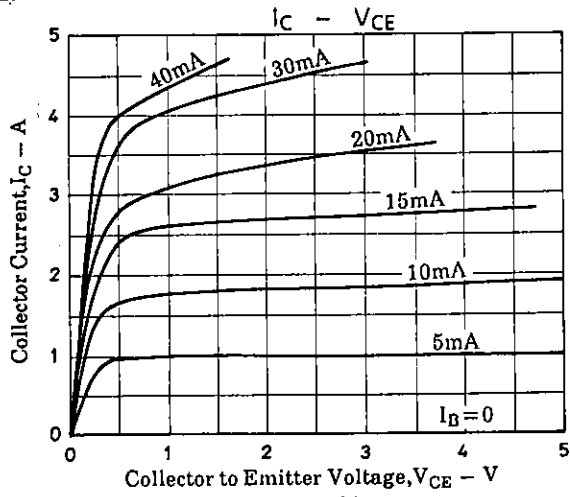
**Package Dimensions 2064**

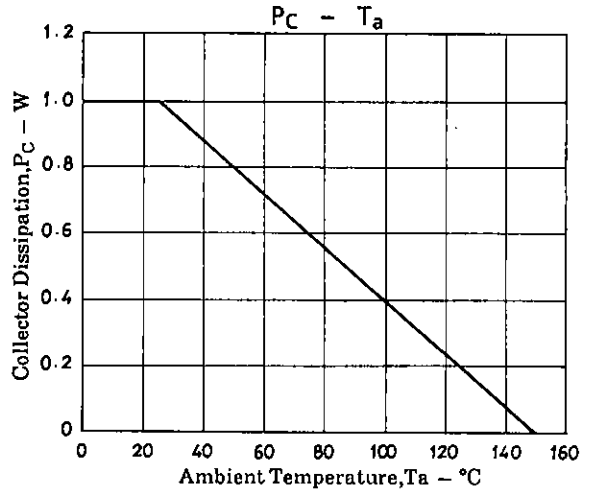
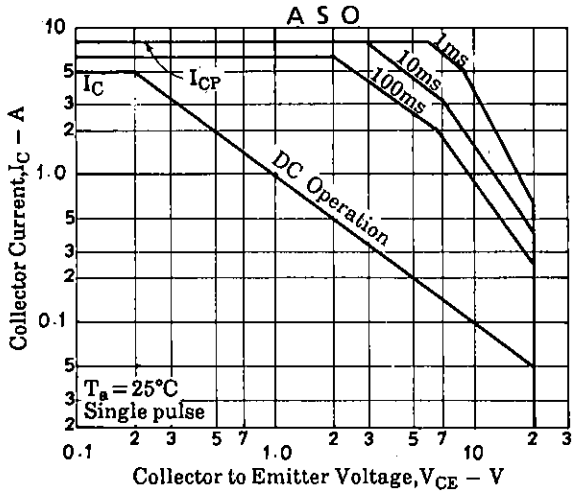
(unit: mm)



**Switching Time Test Circuit**







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