	No.2487A	<h1 style="margin: 0;">2SC3466</h1> <p style="margin: 0;">NPN Triple Diffused Planar Type Silicon Transistor</p> <p style="margin: 0;">Switching Regulator Applications</p>
---	----------	---

**Features**

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

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

			unit
Collector-to-Base Voltage	$V_{CB0}$	1200	V
Collector-to-Emitter Voltage	$V_{CEO}$	650	V
Emitter-to-Base Voltage	$V_{EBO}$	7	V
Collector Current	$I_C$	8	A
Peak Collector Current	$i_{cp}$	20	A
Base Current	$I_B$	3	A
Collector Dissipation	$P_C$	120	W
Junction Temperature	$T_J$	150	°C
Storage Temperature	$T_{stg}$	-55 to +150	°C

$PW \leq 300\mu s, \text{duty cycle} \leq 10\%$

$T_c = 25^\circ C$

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

			min	typ	max	unit
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	$h_{FE1}$	$V_{CE}=5V, I_C=1A$	10*		40*	
	$h_{FE2}$	$V_{CE}=5V, I_C=4A$	6			
Gain-Bandwidth Product	$f_T$	$V_{CE}=10V, I_C=1A$		5		MHz
Output Capacitance	$c_{ob}$	$V_{CB}=10V, f=1MHz$		120		pF
C-E Saturation Voltage	$V_{CE(sat)}$	$I_C=4A, I_B=0.8A$			3.0	V
B-E Saturation Voltage	$V_{BE(sat)}$	$I_C=4A, I_B=0.8A$			1.5	V
C-B Breakdown Voltage	$V_{(BR)CBO}$	$I_C=1mA, I_E=0$	1200			V

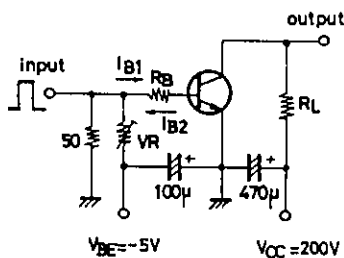
Continued on next page.

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

10 K 20	15 L 30	20 M 40
---------	---------	---------

**Switching Time Test Circuit**

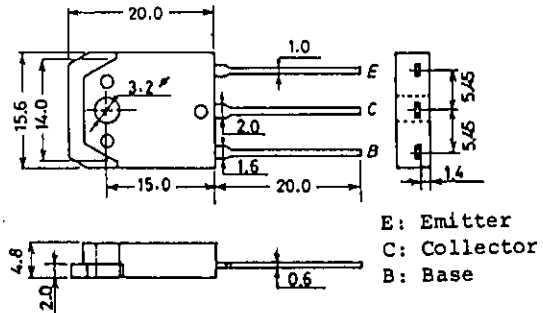
$PW=20\mu s, \text{duty factor} \leq 1\%$



Unit (Resistance : Ω, Capacitance : F)

**Package Dimensions 2022**

(unit:mm)

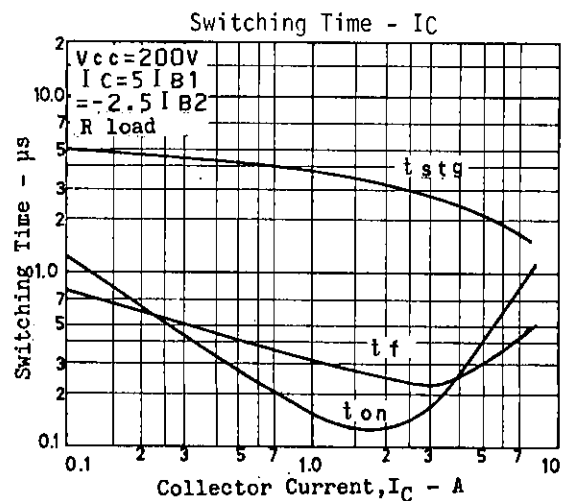
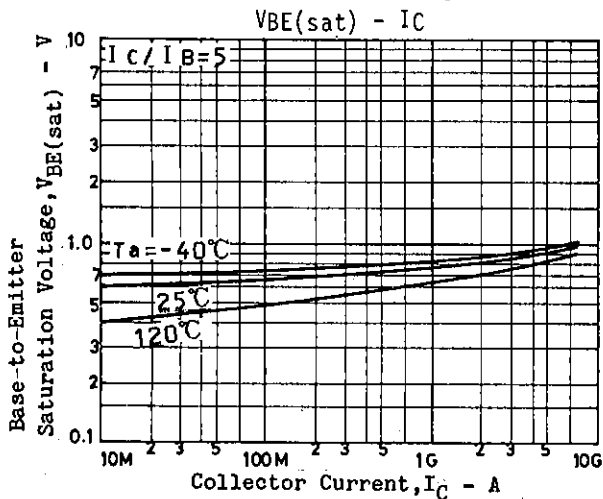
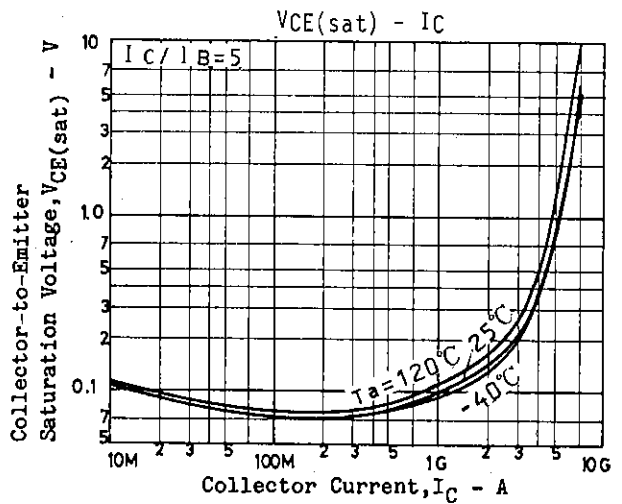
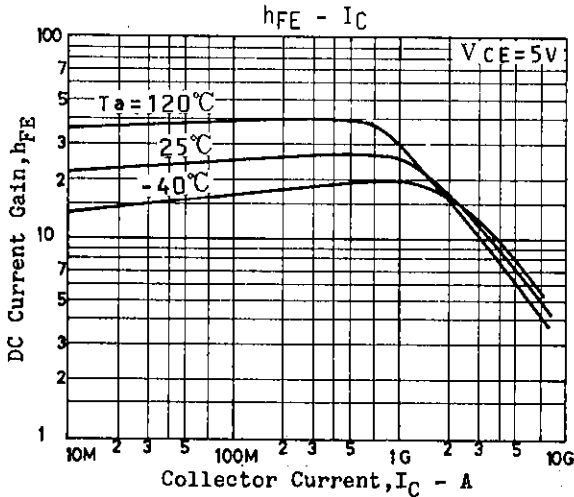
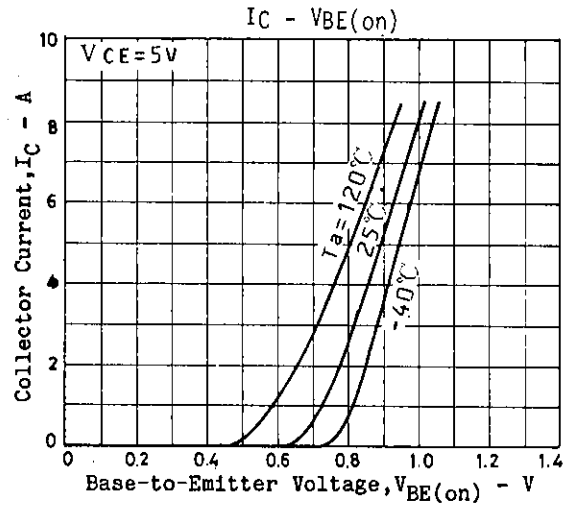
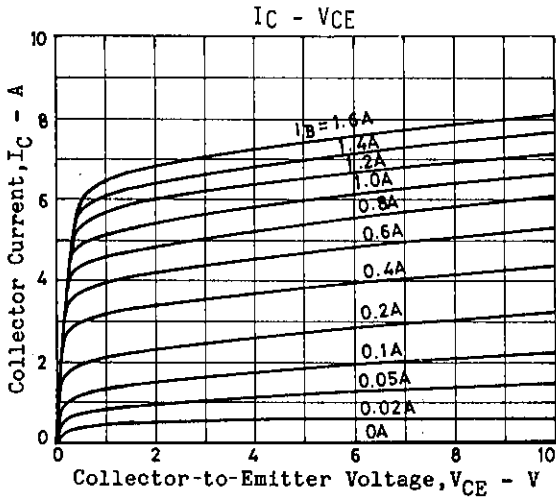


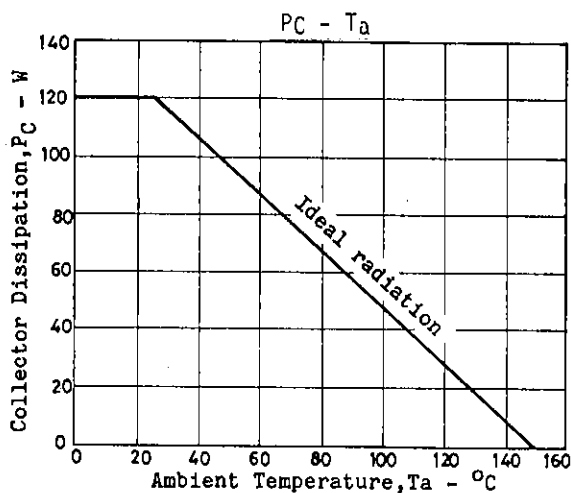
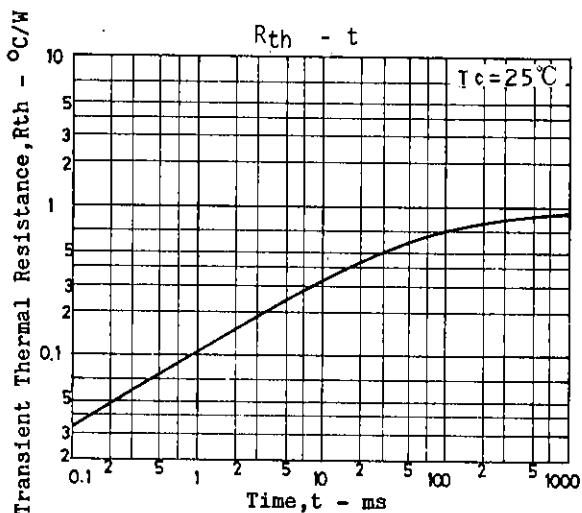
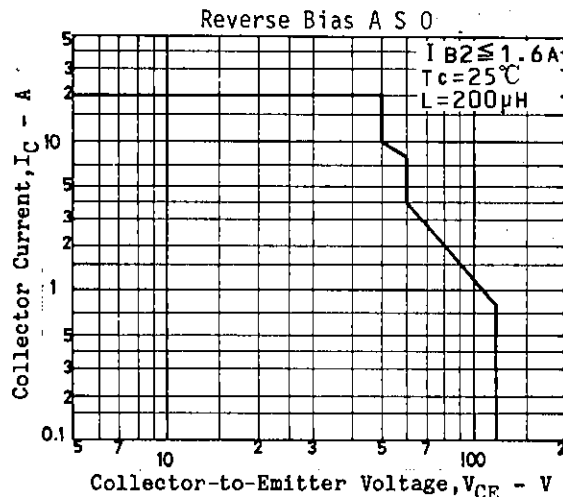
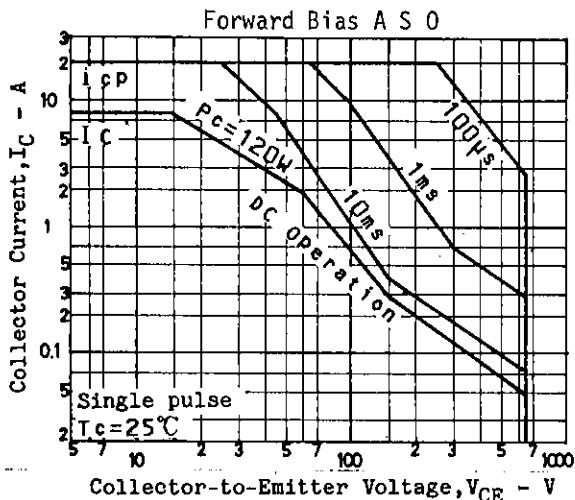
E: Emitter  
C: Collector  
B: Base

SANYO: TO3PB

Continued from preceding page.

			min	typ	max	unit
C-E Breakdown Voltage	$V_{(BR)CEO}$	$I_C=5mA, R_{BE}=\infty$	650			V
E-B Breakdown Voltage	$V_{(BR)EBO}$	$I_E=1mA, I_C=0$	7			V
Turn-on Time	$t_{on}$	$V_{CC}=200V, 5I_{B1}=-2.5I_{B2}$ $=I_C=4A, R_L=50ohms$			1.0	$\mu s$
Storage Time	$t_{stg}$				4.0	$\mu s$
Fall Time	$t_f$				0.7	$\mu s$





- No products described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear power control systems, vehicles, disaster/crime-prevention equipment and the like, the failure of which may directly or indirectly cause injury, death or property loss.
- Anyone purchasing any products described or contained herein for an above-mentioned use shall:
  - ① Accept full responsibility and indemnify and defend SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors and all their officers and employees, jointly and severally, against any and all claims and litigation and all damages, cost and expenses associated with such use;
  - ② Not impose any responsibility for any fault or negligence which may be cited in any such claim or litigation on SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors or any of their officers and employees jointly or severally.
- Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. SANYO believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.