

<b>SANYO</b>	No.3399C	<b>2SA1773/2SC4616</b>
		2SA1773:PNP Epitaxial Planar Silicon Transistor 2SC4616:NPN Triple Diffused Planar Silicon Transistor
<b>High Voltage Driver Applications</b>		

**Features**

- Large current capacity ( $I_C = 2A$ )
- High blocking voltage ( $V_{CEO} \geq 400V$ )

( ) : 2SA1773

**Absolute Maximum Ratings at  $T_a = 25^\circ C$**

			unit
Collector-to-Base Voltage	$V_{CBO}$	(-)	400 V
Collector-to-Emitter Voltage	$V_{CEO}$	(-)	400 V
Emitter-to-Base Voltage	$V_{EBO}$	(-)	5 V
Collector Current	$I_C$	(-)	2 A
Collector Current(Pulse)	$I_{CP}$	(-)	4 A
Collector Dissipation	$P_C$		1 W
		$T_c = 25^\circ C$	15 W
Junction Temperature	$T_j$		150 $^\circ C$
Storage Temperature	$T_{stg}$		-55 to +150 $^\circ C$

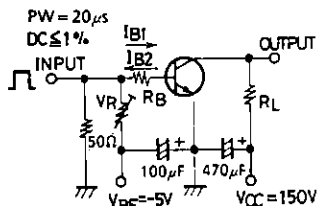
**Electrical Characteristics at  $T_a = 25^\circ C$**

			min	typ	max	unit
Collector Cutoff Current	$I_{CBO}$	$V_{CB} = (-)300V, I_E = 0$			(-)	1.0 $\mu A$
Emitter Cutoff Current	$I_{EBO}$	$V_{EB} = (-)4V, I_C = 0$			(-)	1.0 $\mu A$
DC Current Gain	$h_{FE}$	$V_{CE} = (-)10V, I_C = (-)100mA$	40*		200*	
Gain-Bandwidth Product	$f_T$	$V_{CE} = (-)10V, I_C = (-)100mA$	(40)	60		MHz
C-E Saturation Voltage	$V_{CE(sat)}$	$I_C = (-)500mA, I_B = (-)50mA$			(-)	1.0 V
B-E Saturation Voltage	$V_{BE(sat)}$	$I_C = (-)500mA, I_B = (-)50mA$			(-)	1.0 V
C-B Breakdown Voltage	$V_{(BR)CBO}$	$I_C = (-)10\mu A, I_E = 0$	(-)			400 V
C-E Breakdown Voltage	$V_{(BR)CEO}$	$I_C = (-)1mA, R_{BE} = \infty$	(-)			400 V
E-B Breakdown Voltage	$V_{(BR)EBO}$	$I_E = (-)10\mu A, I_C = 0$	(-)			5 V
Output Capacitance	$C_{ob}$	$V_{CB} = (-)30V, f = 1MHz$	(25)	15		pF
Turn-ON Time	$t_{on}$	See specified Test Circuit.	(0.12)	0.085		$\mu s$
Storage Time	$t_{stg}$	"	(3.0)	4.0		$\mu s$
Fall Time	$t_f$	"	(0.3)	0.6		$\mu s$

\*: The 2SA1773/2SC4616 are classified by 100mA  $h_{FE}$  as follows:

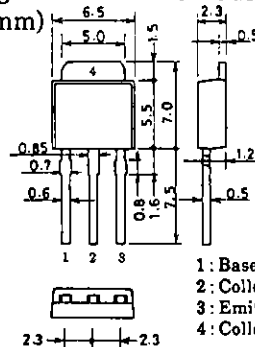
40 C 80	60 D 120	100 E 200
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**Switching Time Test Circuit**



$10I_{B1} = -10I_{B2} = I_C = 500mA$   
 $R_L = 300\Omega, R_B = 20\Omega, \text{ at } I_C = 500mA$   
 (For PNP, the polarity is reversed.)

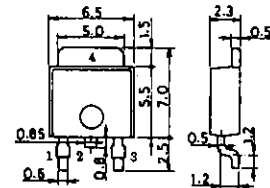
**Package Dimensions 2045A**  
(unit: mm)



1: Base  
 2: Collector  
 3: Emitter  
 4: Collector

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**Package Dimensions 2044A**  
(unit: mm)

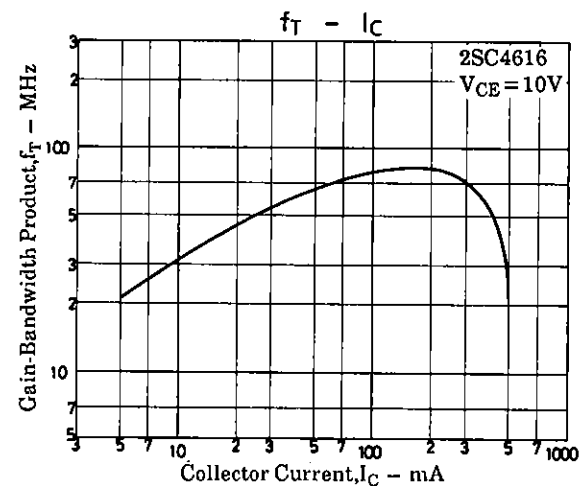
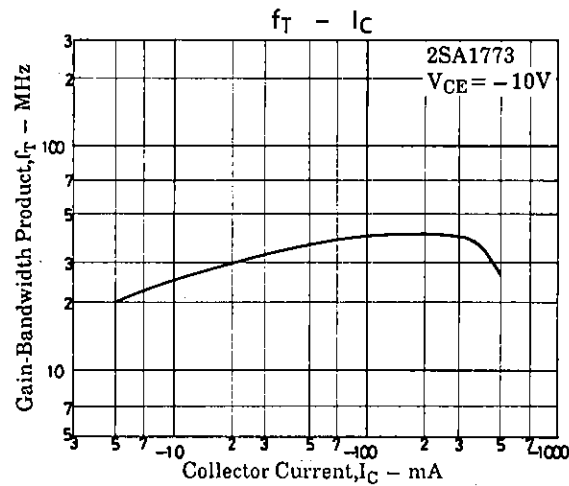
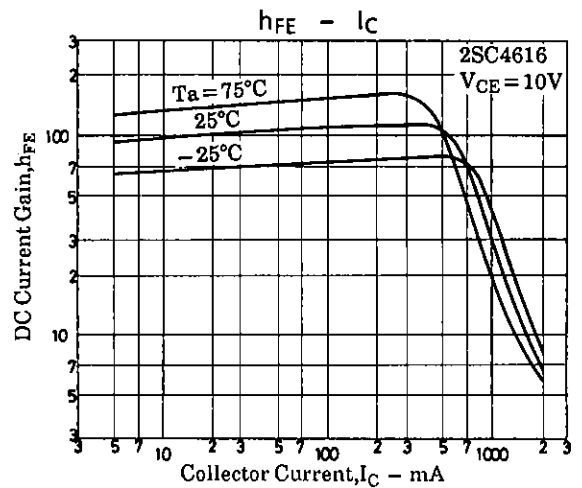
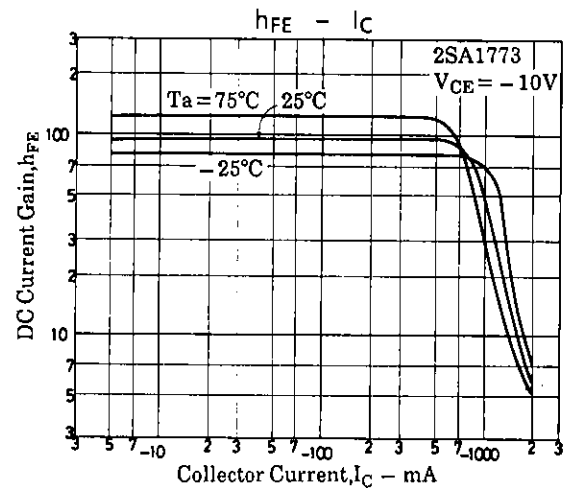
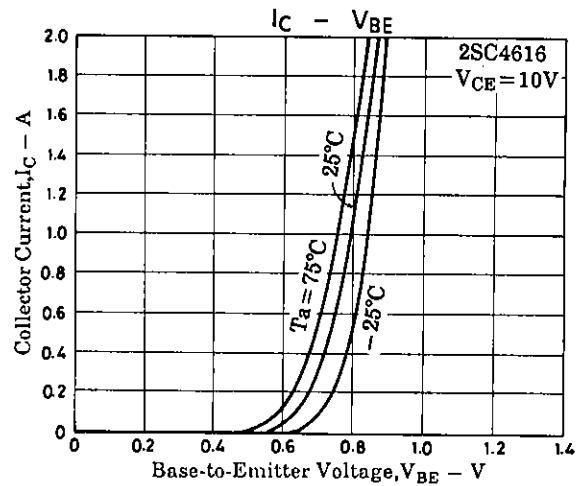
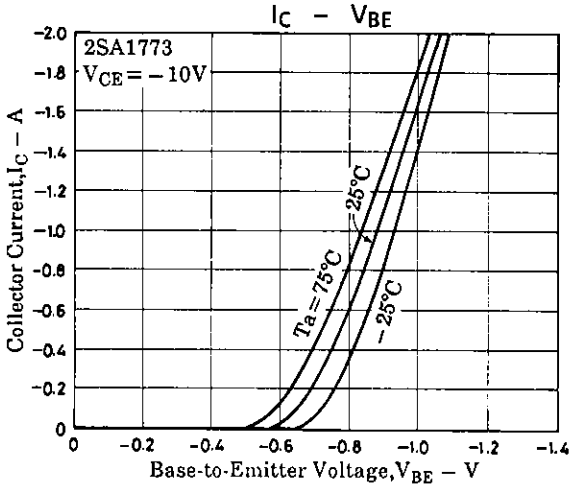
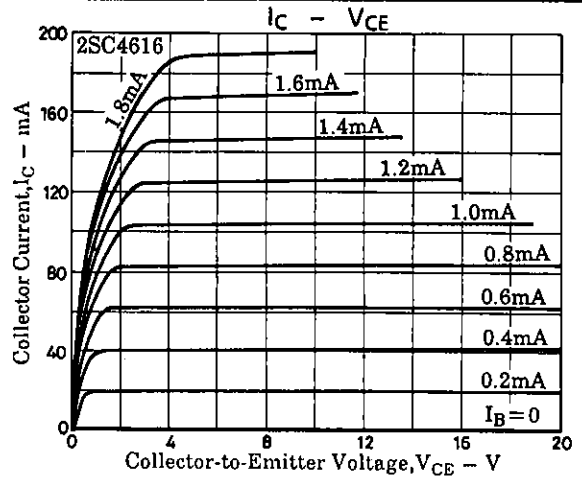
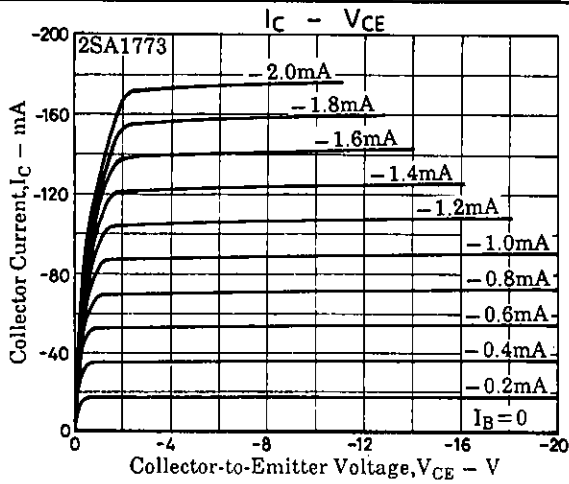


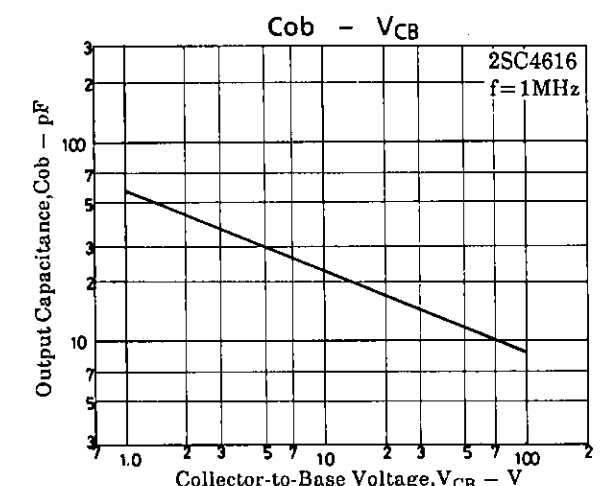
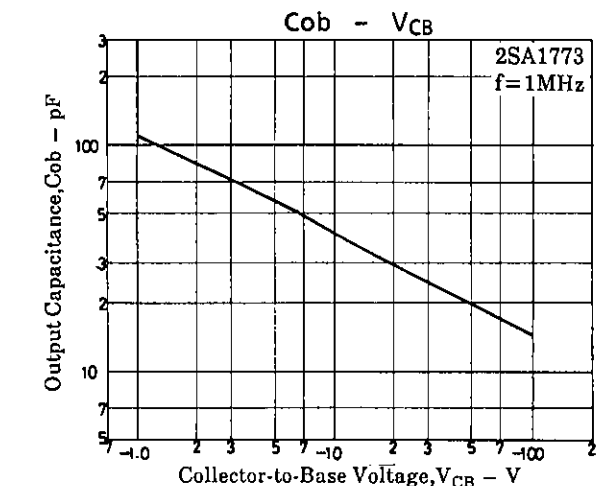
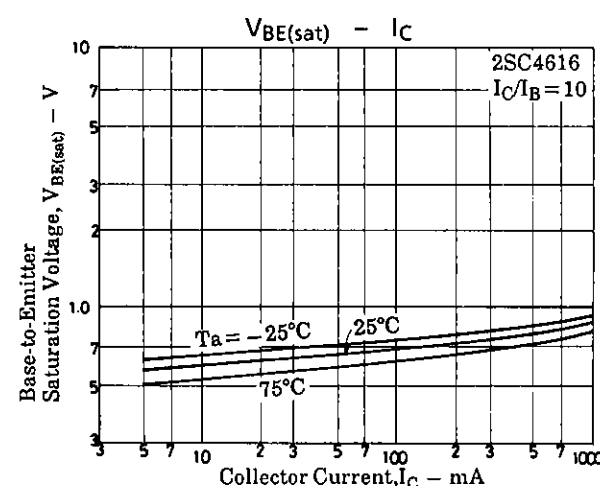
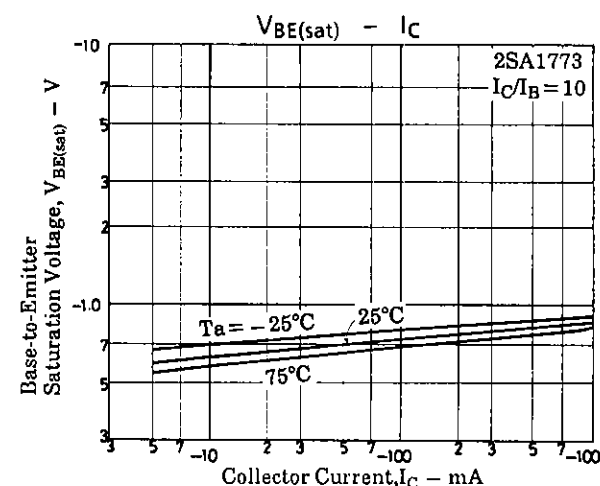
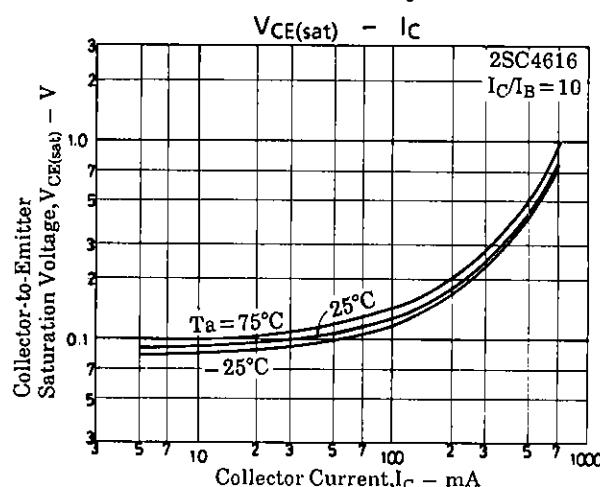
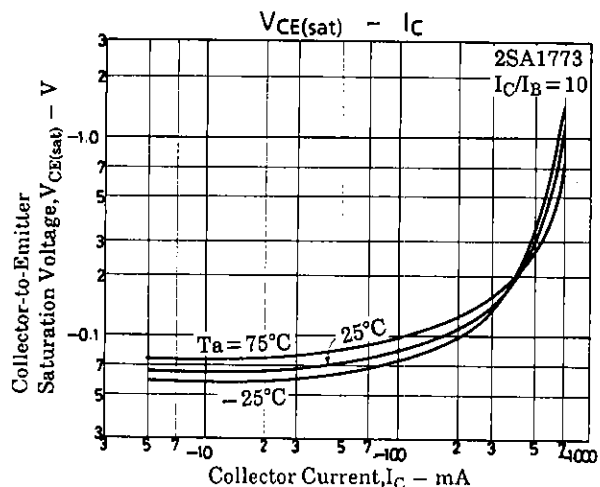
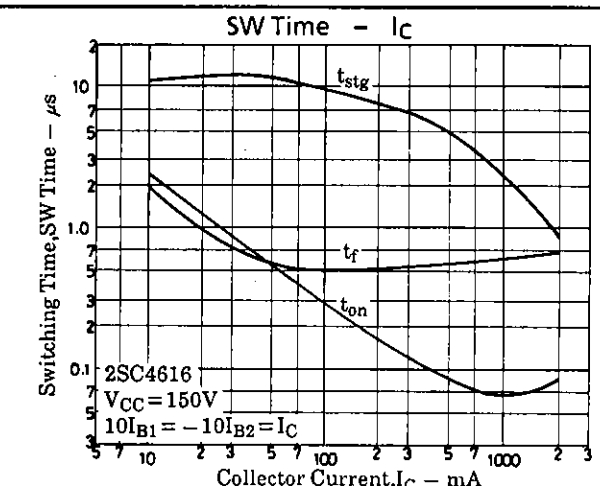
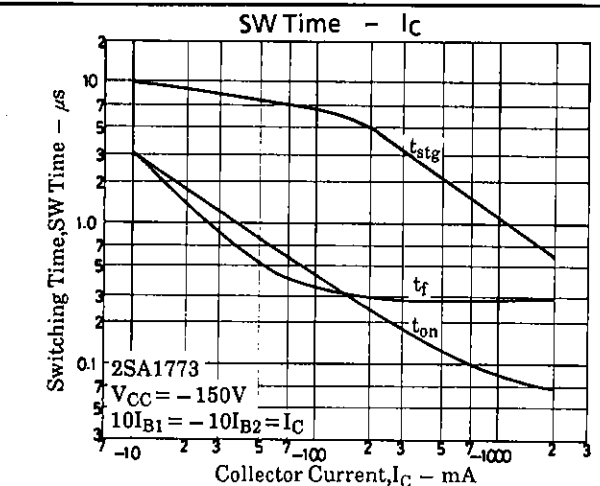
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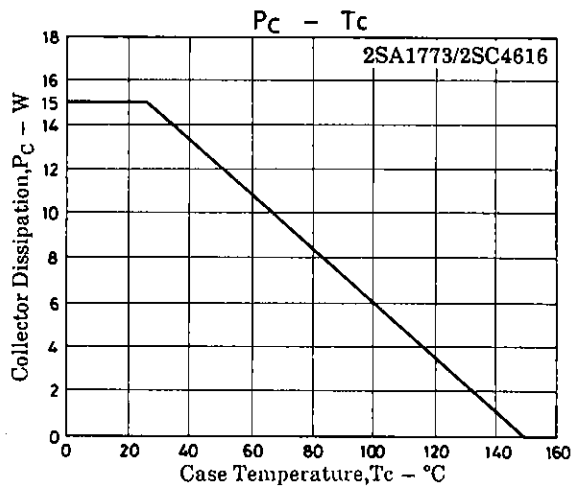
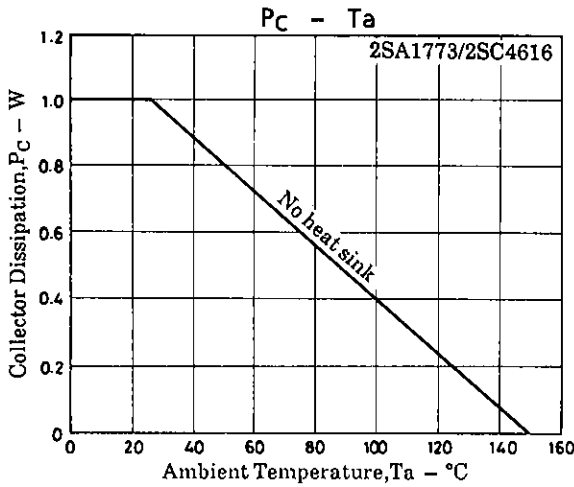
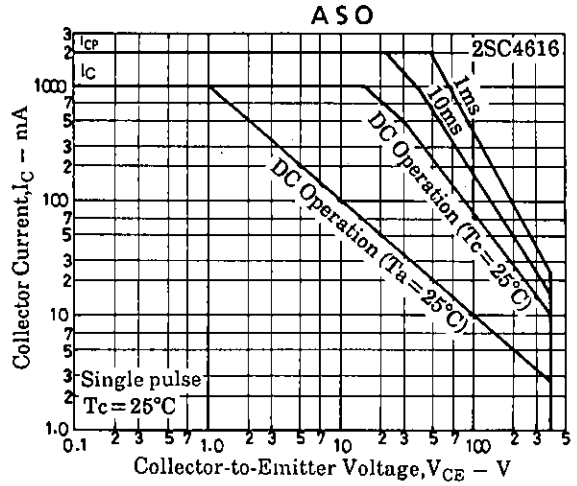
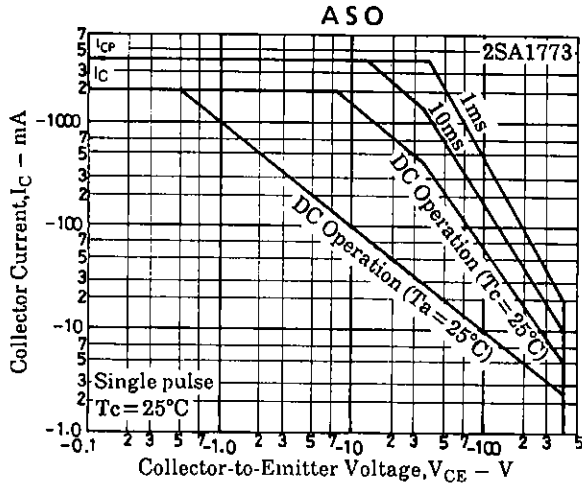
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2SA1773/2SC4616







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