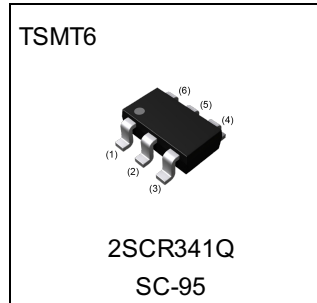


Parameter	Value
$V_{CEO}$	400V
$I_C$	100mA

### ●Outline

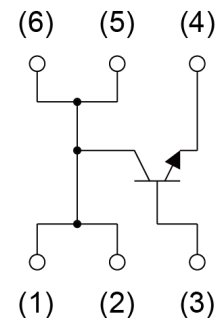


### ●Features

- 1) Complementary PNP Types : 2SAR340Q.
- 2) Low  $V_{CE(sat)}$   
 $V_{CE(sat)}=300mV(Max.)$   
 $(I_C/I_B=20mA/2mA)$

### ●Inner circuit

- (1) Collector
- (2) Collector
- (3) Base
- (4) Emitter
- (5) Collector
- (6) Collector



### ●Application

LOW FREQUENCY AMPLIFIER

### ●Packaging specifications

Part No.	Package	Package size	Taping code	Reel size (mm)	Tape width (mm)	Basic ordering unit.(pcs)	Marking
2SCR341Q	TSMT6	2928	TR	180	8	3000	HJ

### ●Notice

Pay attention to electric discharge with high voltage because of fine pin pitch.

● **Absolute maximum ratings** ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Values	Unit
Collector-base voltage	$V_{CBO}$	400	V
Collector-emitter voltage	$V_{CEO}$	400	V
Emitter-base voltage	$V_{EBO}$	7	V
Collector current	$I_C$	100	mA
	$I_{CP}^{*1}$	200	mA
Base current	$I_B$	30	mA
Power dissipation	$P_D^{*2}$	0.5	W
	$P_D^{*3}$	1.25	W
Junction temperature	$T_j$	150	$^\circ\text{C}$
Range of storage temperature	$T_{stg}$	-55 to +150	$^\circ\text{C}$

● **Electrical characteristics** ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Conditions	Values			Unit
			Min.	Typ.	Max.	
Collector-base breakdown voltage	$BV_{CBO}$	$I_C = 100\mu\text{A}$	400	-	-	V
Collector-emitter breakdown voltage	$BV_{CEO}$	$I_C = 1\text{mA}$	400	-	-	V
Emitter-base breakdown voltage	$BV_{EBO}$	$I_E = 100\mu\text{A}$	7	-	-	V
Collector cut-off current	$I_{CBO}$	$V_{CB} = 400\text{V}$	-	-	10	$\mu\text{A}$
Emitter cut-off current	$I_{EBO}$	$V_{EB} = 6\text{V}$	-	-	10	$\mu\text{A}$
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 20\text{mA}, I_B = 2\text{mA}$	-	100	300	mV
DC current gain	$h_{FE}$	$V_{CE} = 10\text{V}, I_C = 10\text{mA}$	82	-	270	-
Output capacitance	$C_{ob}$	$V_{CB} = 10\text{V}, I_E = 0\text{A}, f = 1\text{MHz}$	-	6	-	pF

$h_{FE}$  values are classified as follows :

rank	P	Q	-	-	-
$h_{FE}$	82 - 180	120 - 270	-	-	-

\*1  $P_w=10\text{ms}$  Single Pulse

\*2 Each terminal mounted on a reference land.

\*3 Mounted on a ceramic board(25×25×0.8 mm)

● Electrical characteristic curves ( $T_a = 25^\circ\text{C}$ )

Fig.1 Grounded Emitter Propagation Characteristics

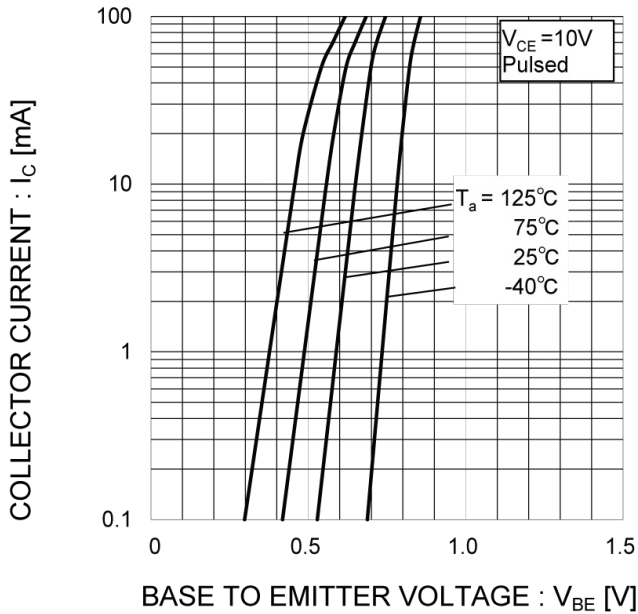


Fig.2 Typical Output Characteristics

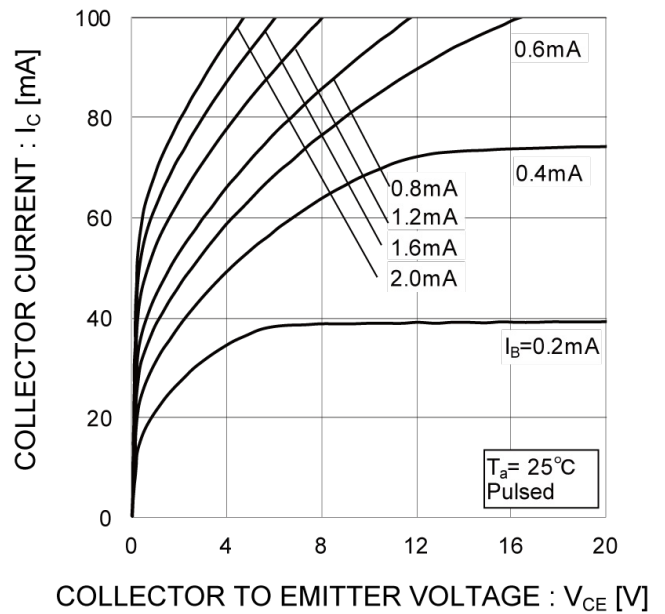


Fig.3 DC Current Gain vs. Collector Current(I)

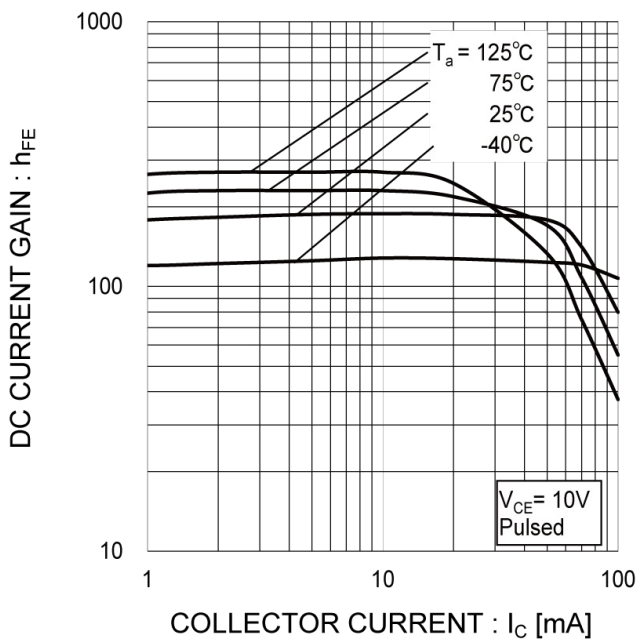
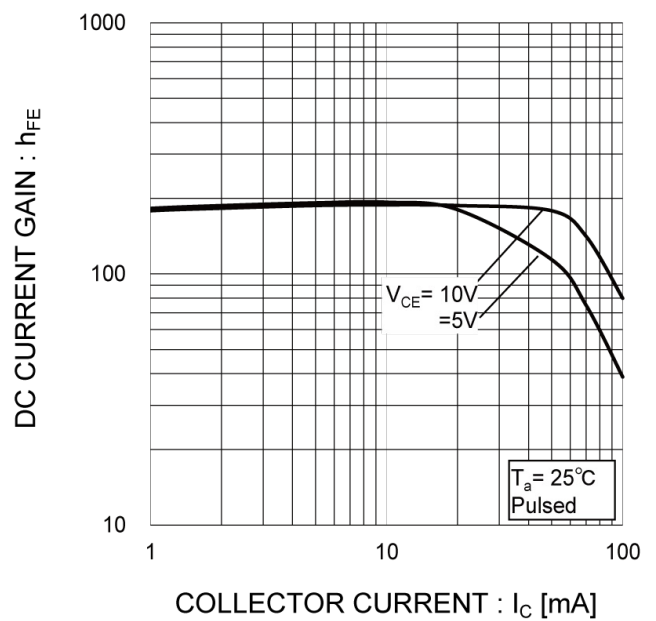


Fig.4 DC Current Gain vs. Collector Current(II)



●Electrical characteristic curves( $T_a = 25^\circ\text{C}$ )

Fig.5 Collector-Emitter Saturation Voltage vs. Collector Current(I)

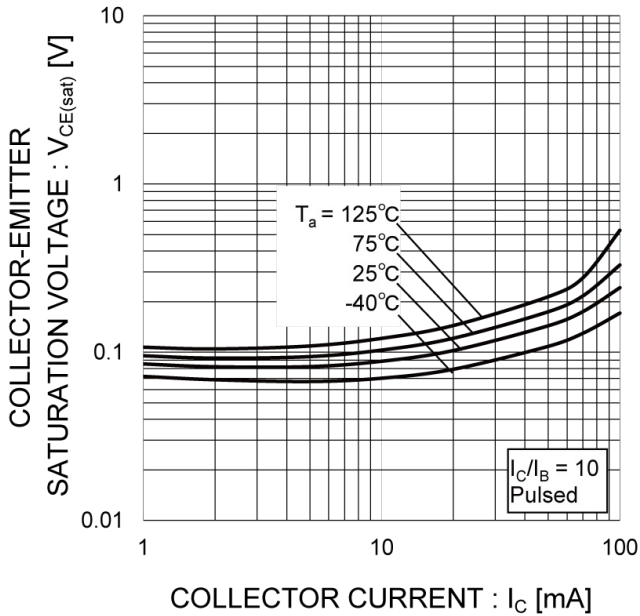


Fig.6 Collector-Emitter Saturation Voltage vs. Collector Current(II)

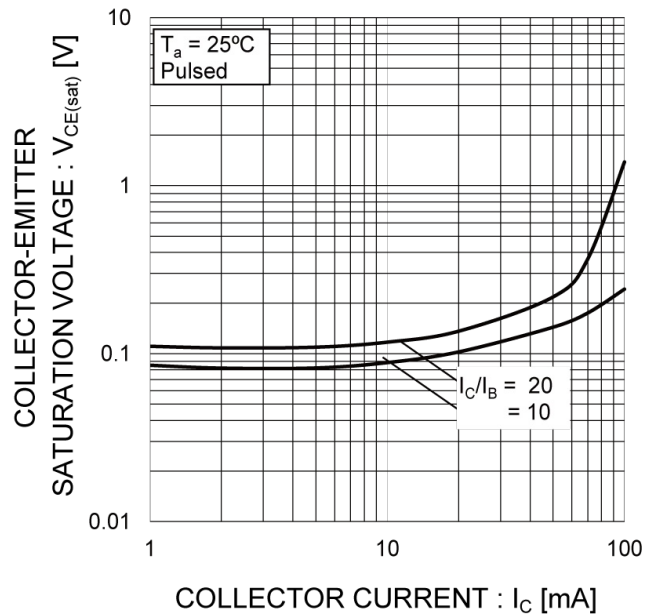


Fig.7 Base-Emitter Saturation Voltage vs. Collector Current

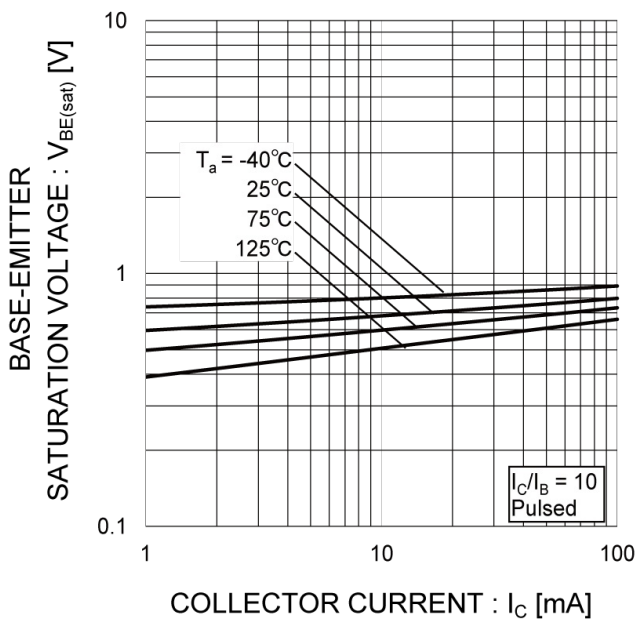
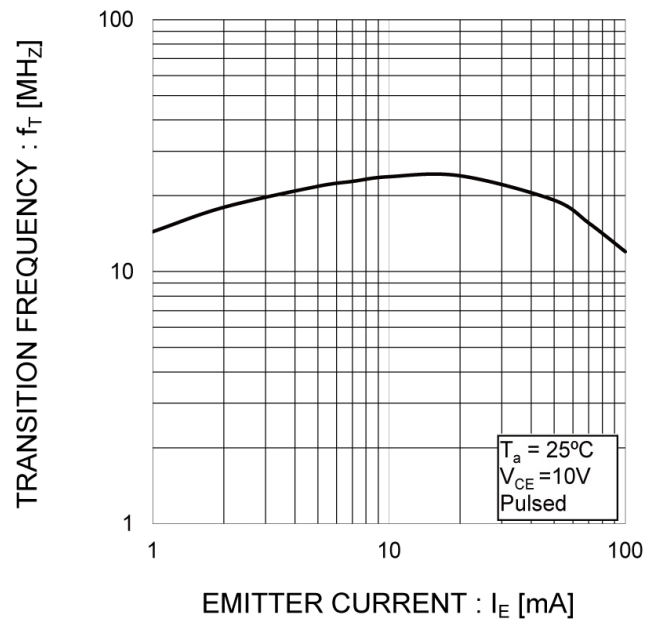


Fig.8 Emitter input capacitance vs. Emitter



● Electrical characteristic curves ( $T_a = 25^\circ\text{C}$ )

Fig.9 Emitter input capacitance vs. Emitter

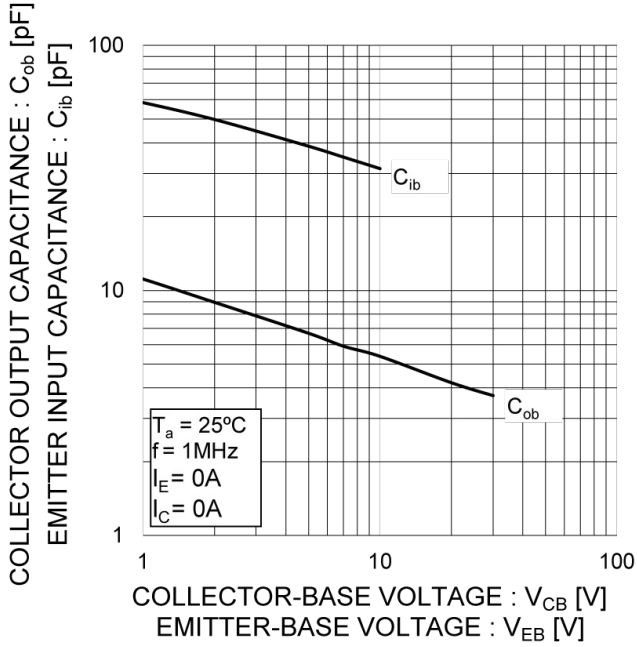
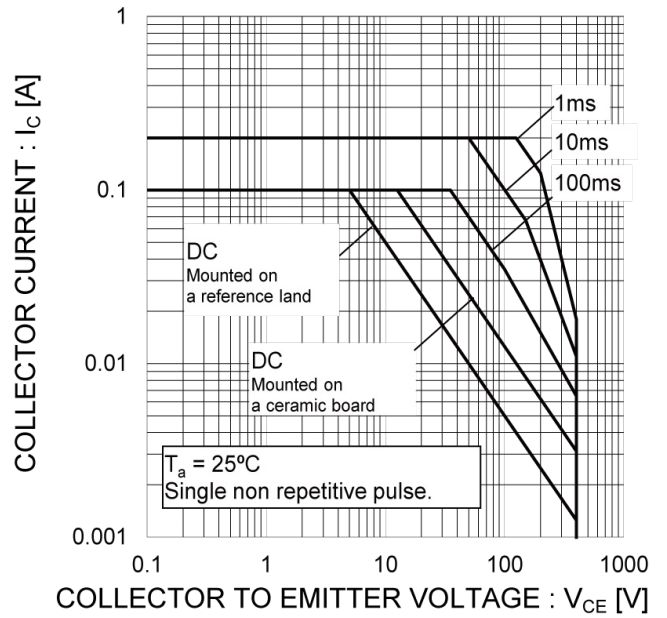
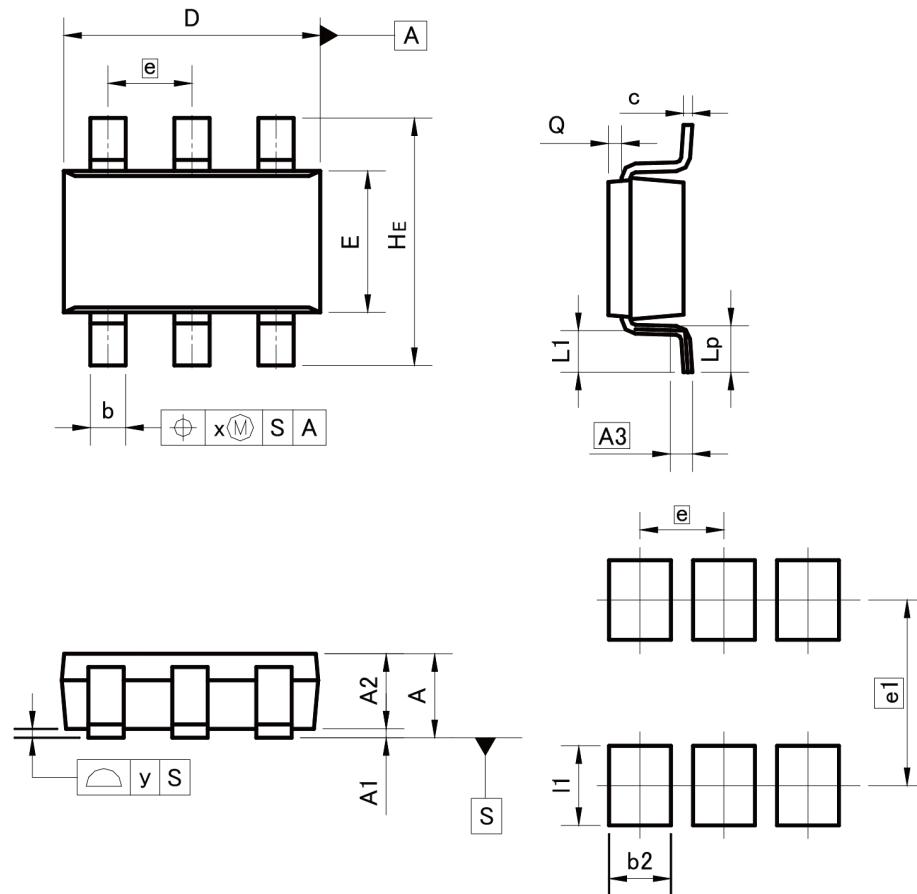


Fig.10 Safe Operating Area



●Dimensions

TSMT6



Pattern of terminal position areas  
[Not a recommended pattern of soldering pads]

DIM	MILIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	-	1.00	-	0.039
A1	0.00	0.10	0.000	0.004
A2	0.75	0.95	0.030	0.037
A3	0.25		0.010	
b	0.35	0.50	0.014	0.020
c	0.10	0.26	0.004	0.010
D	2.80	3.00	0.110	0.118
E	1.50	1.80	0.059	0.071
e	0.95		0.037	
HE	2.60	3.00	0.102	0.118
L1	0.30	0.60	0.012	0.024
Lp	0.40	0.70	0.016	0.028
Q	0.05	0.25	0.002	0.010
x	-	0.20	-	0.008
y	-	0.10	-	0.004
DIM	MILIMETERS		INCHES	
	MIN	MAX	MIN	MAX
b2	-	0.70	-	0.028
e1	2.10		0.083	
I1	-	0.90	-	0.035

Dimension in mm/inches

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- Техническая поддержка проекта;
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#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.