Unit: mm

TOSHIBA Transistor Silicon NPN Epitaxial Type

2SC5376FV

Audio Frequency General Purpose Amplifier Applications For Muting and Switching Applications

Low Collector Saturation Voltage: VCE (sat) (1) = 15 mV (typ.)

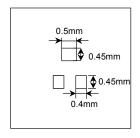
 $@I_C = 10 \text{ mA/I}_B = 0.5 \text{ mA}$

• High Collector Current: IC = 400 mA (max)

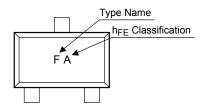
Maximum Ratings (Ta = 25°C)

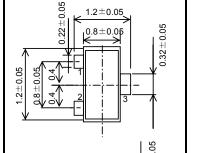
Characteristics	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	15	V
Collector-emitter voltage	V _{CEO}	12	V
Emitter-base voltage	V _{EBO}	5	٧
Collector current	Ic	400	mA
Base current	lΒ	50	mA
Collector power dissipation	PC	150 *	mW
Junction temperature	Tj	150	°C
Storage temperature range	T _{stg}	-55~150	°C

^{* :} Mounted on FR4 board (25.4 mm \times 25.4 mm \times 1.6mmt)



Marking





VESM 2.EMITTER 3.COLLECTOR

JEDEC —

1.BASE

JEITA —
TOSHIBA 2-1L1A

Weight: 0.0015g (typ.)

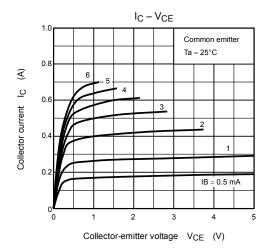
Electrical Characteristics (Ta = 25°C)

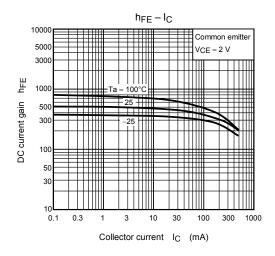
Character	istics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	t	I _{CBO}	$V_{CB} = 15 \text{ V}, I_{E} = 0$	_	_	0.1	μΑ
Emitter cut-off current		I _{EBO}	$V_{EB} = 5 \text{ V}, I_{C} = 0$	_	_	0.1	μΑ
DC current gain		h _{FE} (Note)	V _{CE} = 2 V, I _C = 10 mA	300	_	1000	
Collector-emitter saturation voltage		V _{CE} (sat) (1)	$I_C = 10 \text{ mA}, I_B = 0.5 \text{ mA}$	_	15	30	mV
		V _{CE} (sat) (2)	$I_C = 200 \text{ mA}, I_B = 10 \text{ mA}$	_	110	250	mV
Base-emitter voltage		V _{BE (sat)}	$I_C = 200 \text{ mA}, I_B = 10 \text{ mA}$	_	0.87	1.2	V
Transition frequency		f _T	$V_{CE} = 2 V$, $I_C = 10 \text{ mA}$	80	130	_	MHz
Collector output capacitance		C _{ob}	V _{CB} = 10 V, I _E = 0, f = 1 MHz	_	4.2	_	pF
Collector-emitter on resistance		Ron	$I_B = 1 \text{ mA}, V_{in} = 1 V_{rms}, f = 1 \text{ kHz}$	_	0.9	_	Ω
Switching time	Turn-on time	t _{on}	OUTPUT $\begin{array}{c c} & & & & & & \\ 0 \ V & & & & & \\ \hline 10 \ \mu S & & & & & \\ \hline & & & & & \\ \hline & & & & & \\ \hline & & & &$	_	85	_	ns
	Storage time	t _{stg}		_	170	_	ns
	FallI time	t _f		_	40	_	ns

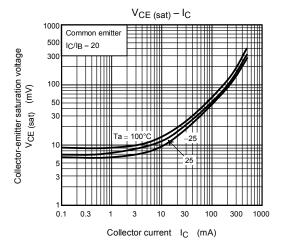
Note: hFE Classification

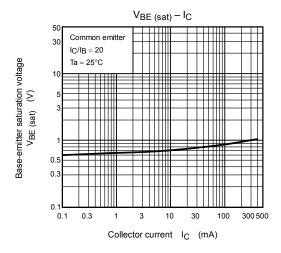
A: 300 ~ 600, B: 500 ~ 1000

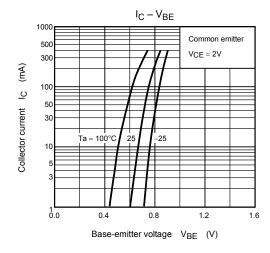
2 2004-06-07

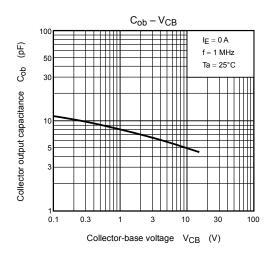


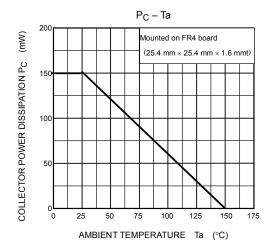












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