Unit: mm

TOSHIBA Transistor Silicon PNP Triple Epitaxial Type (PCT process)

2SA1734

Power Amplifier Applications Power Switching Applications

- Low saturation voltage: $V_{CE (sat)} = -0.5 \text{ V (max) (IC} = -700 \text{ mA)}$
- High speed switching time: $t_{stg} = 0.2 \mu s$ (typ.)
- Small flat package
- $P_C = 1.0$ to 2.0 W (mounted on ceramic substrate)
- Complementary to 2SC4539

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit	
Collector-base voltage	V_{CBO}	-40	V	
Collector-emitter voltage	V _{CEO}	-30	V	
Emitter-base voltage	V _{EBO}	-6	V	
Collector current	Ic	-2	Α	
Base current	Ι _Β	-1.2	Α	
Collector power dissipation	P _C	500	mW	
	PC	1000		
	(Note)	1000		
Junction temperature	Tj	150	°C	
Storage temperature range	T _{stg}	−55 to 150	°C	

Note: Mounted on ceramic substrate (250 mm² × 0.8 t)

4.6MAX. 1.6MAX. 1.6MAX. 1.6MAX. 1.7MAX. 0.4±0.05

0.45-0.05

0.4-0.05

1.5±0.1

1.5±0.1

1.8ase
2. Collector (heat sink)
3. Emitter

PW-MINI

JEDEC

JEITA

SC-62

2-5K1A

Weight: 0.05 g (typ.)

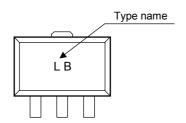
TOSHIBA

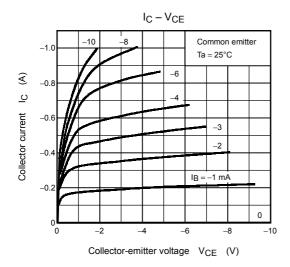
Electrical Characteristics (Ta = 25°C)

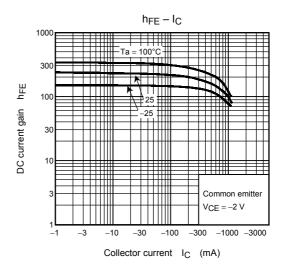
Chara	cteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off c	urrent	I _{CBO}	V _{CB} = -40 V, I _E = 0	_	_	-0.1	μΑ
Emitter cut-off cur	rent	I _{EBO}	V _{EB} = -6 V, I _C = 0	-	_	-0.1	μΑ
Collector-emitter t	oreakdown voltage	V (BR) CEO	I _C = -10 mA, I _B = 0	-50	_	_	V
DC current gain		h _{FE (1)}	V _{CE} = -2 V, I _C = -100 mA	120	_	400	
		h _{FE (2)}	V _{CE} = -2 V, I _C = -1.0 A	40	_	_	
Collector-emitter	saturation voltage	V _{CE (sat)}	I _C = -700 mA, I _B = -35 mA	_	_	-0.5	V
Base-emitter saturation voltage		V _{BE (sat)}	I _C = -700 mA, I _B = -35 mA	_	_	-1.2	V
Transition frequency		f _T	V _{CE} = -2 V, I _C = -100 mA	_	100	_	MHz
Collector output capacitance		C _{ob}	V _{CB} = -10 V, I _E = 0, f = 1 MHz	_	16	_	pF
Switching time Stora	Turn-on time	t _{on}	I_{B2} I_{B2} I_{B2} I_{B2} I_{B2} I_{B2} I_{B2} I_{B1} I_{B2} I_{B1} I_{B2} I_{CC} I	_	0.1	_	
	Storage time	t _{stg}		_	0.2	_	μs
	Fall time	t _f		_	0.1	_	

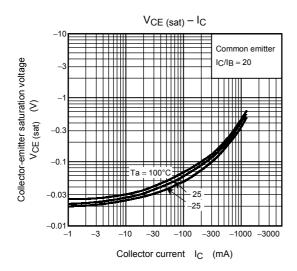
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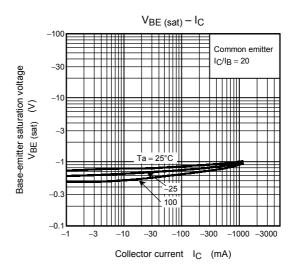
Marking



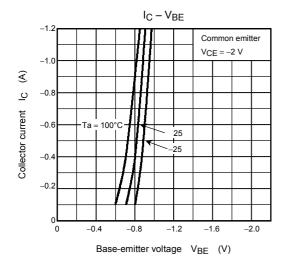


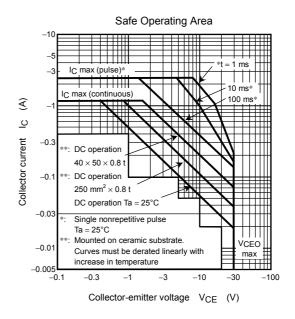


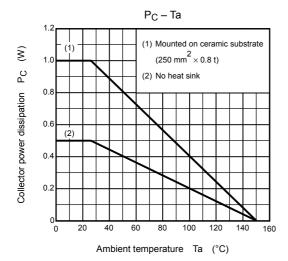




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