Unit: mm

TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT process)

2SA1735

Power Amplifier Applications Power Switching Applications

- Low saturation voltage: $V_{CE (sat)} = -0.5 \text{ V (max) (I}_{C} = -500 \text{ mA)}$
- High speed switching time: $t_{stg} = 0.25 \mu s$ (typ.)
- Small flat package
- $P_C = 1.0$ to 2.0 W (mounted on ceramic substrate)
- Complementary to 2SC4540

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit	
Collector-base voltage	V_{CBO}	-60	V	
Collector-emitter voltage	V_{CEO}	-50	V	
Emitter-base voltage	V _{EBO}	-6	V	
Collector current	IC	-1	Α	
Base current	Ι _Β	-0.2	Α	
	P_{C}	500	mW	
Collector power dissipation	P _C (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)

1.6MAX 4.6MAX 1.7MAX. 0.4 ± 0.05 + 0.08 0.4 - 0.05 + 0.08 0.4 - 0.05 1.5 ± 0.1 1.5 ± 0.1 1. Base 2. Collector (heat sink) 3. Emitter PW-MINI **JEDEC** JEITA SC-62 **TOSHIBA** 2-5K1A

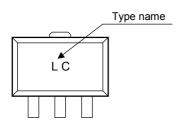
Weight: 0.05 g (typ.)

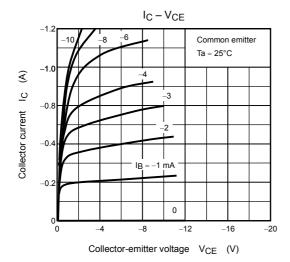
Electrical Characteristics (Ta = 25°C)

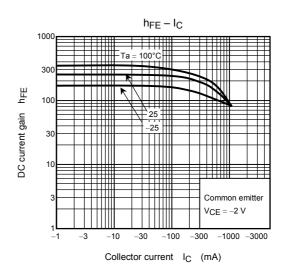
Charac	teristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current		I _{CBO}	V _{CB} = -60 V, I _E = 0	_	_	-0.1	μΑ
Emitter cut-off current		I _{EBO}	V _{EB} = -6 V, I _C = 0	_	_	-0.1	μΑ
Collector-emitter br	eakdown voltage	V (BR) CEO	I _C = -10 mA, I _B = 0	-50	_	_	V
DC current gain		h _{FE (1)}	V _{CE} = -2 V, I _C = -100 mA	120	_	400	
		h _{FE (2)}	V _{CE} = -2 V, I _C = -700 mA	40	_	_	
Collector-emitter sa	aturation voltage	V _{CE} (sat)	$I_C = -500 \text{ mA}, I_B = -25 \text{ mA}$	_	_	-0.5	V
Base-emitter saturation voltage		V _{BE (sat)}	$I_C = -500 \text{ mA}, I_B = -25 \text{ mA}$	_	_	-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 SI	Turn-on time	t _{on}	$I_{B1} \bigoplus_{INPUT} I_{B1}$ $20 \ \mu s$ $V_{CC} = -25 \ V$ $-I_{B1} = I_{B2} = 25 \ \text{mA},$ $DUTY \ CYCLE \le 1\%$	_	0.1	_	
	Storage time	t _{stg}		_	0.25	_	μs
	Fall time	t _f		-	0.1	-	

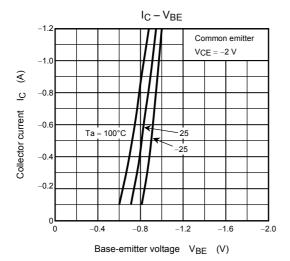
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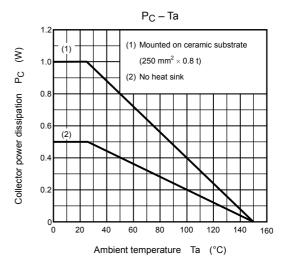
Marking











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