TOSHIBA 2SA1805

TOSHIBA TRANSISTOR SILICON PNP TRIPLE DIFFUSED TYPE

2 S A 1 8 0 5

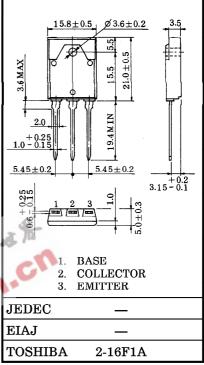
POWER AMPLIFIER APPLICATIONS

Unit in mm

- Complementary to 2SC4690
- Recommend for 70W High Fidelity Audio Frequency Amplifier output Stage.

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERIS	SYMBOL	RATING	UNIT		
Collector-Base Voltage		v_{CBO}	-140	V	
Collector-Emitter Voltage		v_{CEO}	-140	V	
Emitter-Base Voltage	$v_{ m EBO}$	-5	V		
Collector Current	DC	$I_{\mathbf{C}}$	-10	A	
	Pulse	I_{CP}	-20		
Base Current	$I_{\mathbf{B}}$	-1	Α		
Collector Power Dissipation (Tc=25°C)		$P_{\mathbf{C}}$	80	w	
Junction Temperature		T_j	Tj 150		
Storage Temperature Range		$T_{ m stg}$	-55~150	°C	



Weight: 5.8g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = -140V, I_{E} = 0$	_	_	-5.0	μ A
Emitter Cut-off Current	$I_{ m EBO}$	$V_{EB} = -5V, I_C = 0$	_	_	-5.0	μ A
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	$I_{\rm C} = -50 {\rm mA}, \ I_{\rm B} = 0$	-140	_	_	V
DC Current Gain	hFE(1) (Note)	$V_{CE} = -5V, I_{C} = -1A$	55	_	160	
	$h_{\mathrm{FE}(2)}$	$V_{CE} = -5V$, $I_{C} = -5A$	35	85	_	
Collector-Emitter Saturation Voltage	V _{CE(sat)}	$I_C = -7A, I_B = -0.7A$	_	-0.8	-2.0	V
Base-Emitter Voltage	$ m v_{BE}$	$V_{CE} = -5V, I_{C} = -5A$	_	-1.0	-1.5	V
Transition Frequency	f_{T}	$V_{CE} = -5V, I_{C} = -1A$	_	30		MHz
Collector Output Capacitance	Cob	$V_{CB} = -10V, I_E = 0, f = 1MHz$	_	480	_	рF

Note: hFE(1) Classification R: 55~110, O: 80~160

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