Unit in mm

TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED TYPE

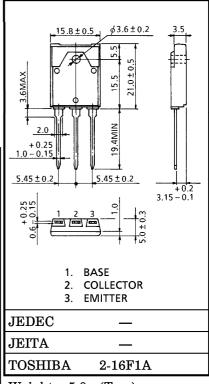
2 S C 4 6 8 8

POWER AMPLIFIER APPLICATIONS

- Complementary to 2SA1803
- Recommend for 40W High Fidelity Audio Frequency Amplifier output Stage.

MAXIMUM RATINGS (Tc = 25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT	
Collector-Base Voltage		v_{CBO}	80	V	
Collector-Emitter Voltage		v_{CEO}	80	V	
Emitter-Base Voltage		v_{EBO}	5	v	
Collector Current	DC	$I_{\mathbf{C}}$	6	Α	
Collector Current	Pulse	I_{CP}	12	11	
Base Current	$I_{\mathbf{B}}$	0.6	Α		
Collector Power Dissipation (Tc=25°C)		PC	55	W	
Junction Temperature		$T_{ m j}$	150	°C	
Storage Temperature Range		$\mathrm{T_{stg}}$	-55~150	$^{\circ}\mathrm{C}$	



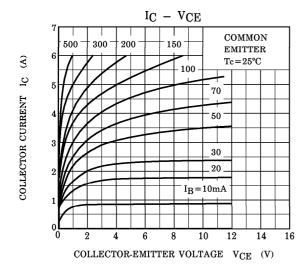
Weight: 5.8g (Typ.)

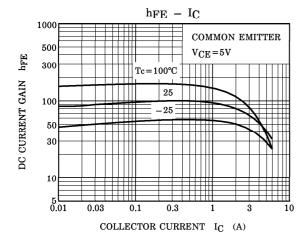
ELECTRICAL CHARACTERISTICS (Tc = 25°C)

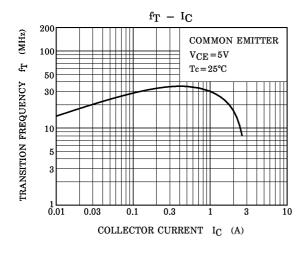
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = 80V, I_{E} = 0$	_	_	5.0	μ A
Emitter Cut-off Current	${ m I}_{ m EBO}$	$V_{EB}=5V, I_{C}=0$	_	_	5.0	μ A
Collector-Emitter Breakdown Voltage	V (BR) CEO	$I_{\rm C}$ =50mA, $I_{\rm B}$ =0	80	_	_	V
DC Current Gain	hFE (1) (Note)	$V_{\rm CE}$ =5V, $I_{\rm C}$ =1A	55	_	160	
	h _{FE (2)}	$V_{CE}=5V$, $I_{C}=3A$	35	75	_	
Collector-Emitter Saturation Voltage	V _{CE} (sat)	I _C =5A, I _B =0.5A	_	0.45	2.0	V
Base-Emitter Voltage	$v_{ m BE}$	$V_{\rm CE}$ =5V, $I_{\rm C}$ =3A	_	0.92	1.5	V
Transition Frequency	$ m f_{T}$	$V_{\rm CE}$ =5V, $I_{\rm C}$ =1A	_	30	_	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = 10V, I_{E} = 0, f = 1MHz$	_	105	_	pF

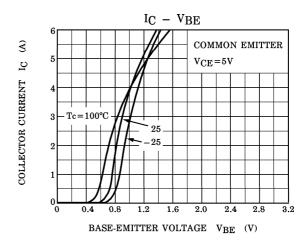
(Note): $h_{FE(1)}$ Classification R: 55~110, O: 80~160

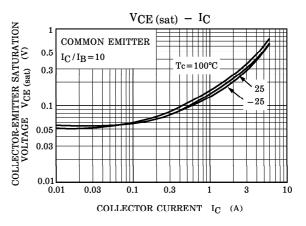
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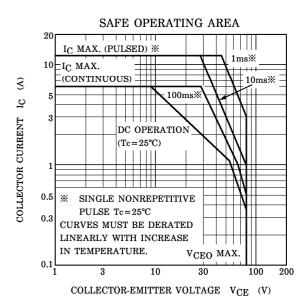












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