

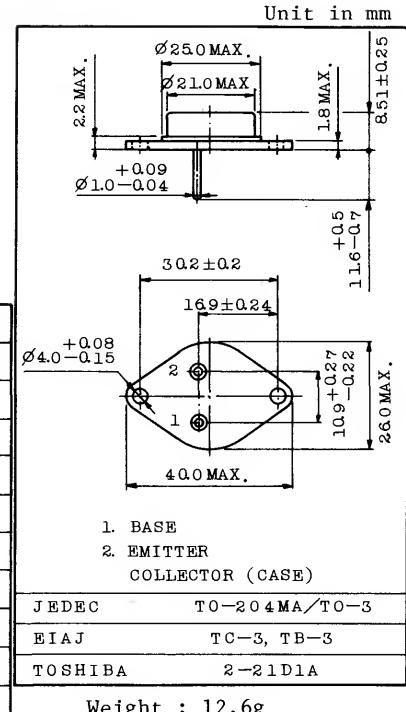
## POWER AMPLIFIER, SWITCHING CIRCUIT AND REGULATOR APPLICATIONS.

## FEATURES:

- High Gain and Excellent h<sub>FE</sub> Linearity:  
h<sub>FE</sub>=15(Min.) @ V<sub>CE</sub>=-2V, I<sub>C</sub>=-3A
- Low Saturation Voltage:  
V<sub>CE(sat)</sub>=-1.0V(Max.) @ I<sub>C</sub>=-4A, I<sub>B</sub>=-0.4A

## MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
※ Collector-Base Voltage		V <sub>CBO</sub>	-80	V
※ Collector-Emitter Voltage		V <sub>CEO</sub>	-80	V
※ Emitter-Base Voltage		V <sub>EBO</sub>	-7	V
※ Collector Current	DC	I <sub>C</sub>	-10	A
	Peak	I <sub>CM</sub>	-15	A
※ Base Current		I <sub>B</sub>	-4	A
※ Collector Power Dissipation (T <sub>c</sub> =25°C)Derate Linearly above 25°C	P <sub>C</sub>		150	W
			0.86	W/°C
※ Junction Temperature	T <sub>j</sub>		200	°C
※ Storage Temperature Range	T <sub>stg</sub>		-65~200	°C



Weight : 12.6g

## ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
※ Collector Cut-off Current		I <sub>CEX</sub>	V <sub>CE</sub> =-80V, V <sub>BE</sub> =1.5V	-	-	-1	mA
※ Collector Cut-off Current		I <sub>CEX</sub>	V <sub>CE</sub> =-80V, V <sub>BE</sub> =1.5V T <sub>c</sub> =150°C	-	-	-5	mA
※ Collector Cut-off Current		I <sub>CEO</sub>	V <sub>CE</sub> =-40V, I <sub>B</sub> =0	-	-	-10	mA
※ Emitter Cut-off Current		I <sub>EBO</sub>	V <sub>EB</sub> =-7V, I <sub>C</sub> =0	-	-	-5	mA
※ Collector-Emitter Sustaining Voltage		V <sub>CEO(SUS)</sub>	※※ I <sub>C</sub> =-0.2A, I <sub>B</sub> =0	-80	-	-	V
※ DC Current Gain		h <sub>FE</sub>	V <sub>CE</sub> =-2V, I <sub>C</sub> =-1A	25	-	90	
			V <sub>CE</sub> =-2V, I <sub>C</sub> =-3A	15	-	-	
※ Saturation Voltage	Collector-Emitter	V <sub>CE(sat)</sub>	I <sub>C</sub> =-4A, I <sub>B</sub> =-0.4A	-	-	-1.0	V
	Base-Emitter	V <sub>BE(sat)</sub>	I <sub>C</sub> =-4A, I <sub>B</sub> =-0.4A	-	-	-2.0	V
※ Transition Frequency	f <sub>T</sub>		V <sub>CE</sub> =-10V, I <sub>C</sub> =-0.5A, f=1MHz	4	-	-	MHz
※ Collector Output Capacitance	C <sub>ob</sub>		V <sub>CB</sub> =-10V, I <sub>E</sub> =0, f=1MHz	-	-	500	pF

※In accordance with JEDEC registration data.

※※The sustaining voltage V<sub>CEO(SUS)</sub> MUST NOT be measured on a curve tracer.

# 2N3790

