

POWER AMPLIFIER, SWITCHING CIRCUIT AND
REGULATOR APPLICATIONS.

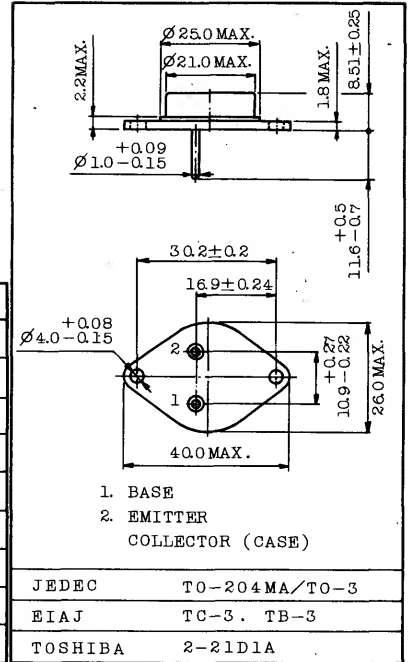
Unit in mm

FEATURES:

- High Gain and Excellent h_{FE} Linearity:
 $h_{FE}=30$ (Min.) @ $V_{CE}=-2V, I_C=-3A$
- Low Saturation Voltage:
 $V_{CE(sat)}=-1.0V$ (Max.) @ $I_C=-5A, I_B=-0.5A$

MAXIMUM RATINGS ($T_a=25^\circ C$)

CHARACTERISTIC		SYMBOL	RATING	UNIT
*	Collector-Base Voltage	V_{CBO}	-80	V
*	Collector-Emitter Voltage	V_{CEO}	-80	V
*	Emitter-Base Voltage	V_{EBO}	-7	V
*	Collector Current	DC	I_C	-10 A
		Peak	I_{CM}	-15 A
*	Base Current	I_B	-4	A
*	Collector Power Dissipation ($T_c=25^\circ C$) Derate Linearly above $25^\circ C$	P_C	150	W
			0.86	W/ $^\circ C$
*	Junction Temperature	T_j	200	$^\circ C$
*	Storage Temperature Range	T_{stg}	-65 ~ 200	$^\circ C$



Weight : 12.6g

ELECTRICAL CHARACTERISTICS ($t_a=25^\circ C$)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
*	Collector Cut-off Current	I_{CEX}	$V_{CE}=-80V, V_{BE}=1.5V$	-	-	-1	mA
*	Collector Cut-off Current	I_{CEX}	$V_{CE}=-80V, V_{BE}=1.5V$ $T_c=150^\circ C$	-	-	-5	mA
*	Collector Cut-off Current	I_{CEO}	$V_{CE}=-40V, I_B=0$	-	-	-10	mA
*	Emitter Cut-off Current	I_{EBO}	$V_{EB}=-7V, I_C=0$	-	-	-5	mA
*	Collector-Emitter Sustaining Voltage	$V_{CEO(SUS)}^{**}$	$I_C=-0.2A, I_B=0$	-80	-	-	V
*	DC Current Gain	h_{FE}	$V_{CE}=-2V, I_C=-1A$	50	-	150	
			$V_{CE}=-2V, I_C=-3A$	30	-	-	
*	Collector-Emitter Voltage	$V_{CE(sat)}$	$I_C=-5A, I_B=-0.5A$	-	-	-1.0	V
	Base-Emitter Voltage	$V_{BE(sat)}$	$I_C=-5A, I_B=-0.5A$	-	-	-1.5	V
*	Transition Frequency	f_T	$V_{CE}=-10V, I_C=-0.5A$ $f=1MHz$	4	-	-	MHz
	Collector Output Capacitance	C_{ob}	$V_{CB}=-10V, I_E=0, f=1MHz$	-	-	500	pF

* In Accordance with JEDEC Registration Data.

** The sustaining voltage $V_{CE(SUS)}$ MUST NOT be measured on a curve tracer.

