

GENERAL PURPOSE POWER TRANSISTOR.
 POWER REGULATOR, SWITCHING AND SOLENOID
 DRIVE APPLICATIONS.

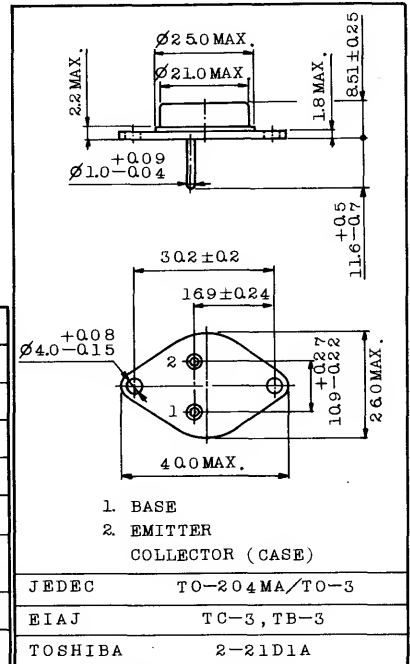
FEATURES:

- . High Gain at High Current
- . Low Saturation Voltage : $V_{CE(sat)}=0.8V$
 @ $I_C=5A, I_B=0.5A$
- . Excellent Area of Safe Operatings

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
* Collector-Base Voltage	V_{CBO}	100	V
* Collector-Emitter Voltage	V_{CEO}	80	V
* Emitter-Base Voltage	V_{EBO}	7	V
* Collector Current	I_C	10	A
* Base Current	I_B	4	A
* Collector Power Dissipation ($T_c=25^\circ C$)	P_C	150	W
* Thermal Resistance	θ_{jc}	1.17	$^\circ C/W$
* Junction Temperature	T_j	200	$^\circ C$
* Storage Temperature Range	T_{stg}	-65 ~ 200	$^\circ C$

Unit in mm



Weight : 12.6g

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
* Collector Cut-off Current	I_{CEX}	$V_{CE}=100V, V_{BE}=-1.5V$	-	-	1	mA
* Collector Cut-off Current	I_{CEX}	$V_{CE}=80V, V_{BE}=-1.5V$ $T_c=150^\circ C$	-	-	10	mA
* Emitter Cut-off Current	I_{EBO}	$V_{EB}=7V, I_C=0$	-	-	5	mA
* Collector-Emitter Sustaining Voltage	$V_{CEO(SUS)}^{**}$	$I_C=200mA, I_B=0$	80	-	-	V
* DC Current Gain	h_{FE}	$V_{CE}=2V, I_C=1A$	50	-	150	
		$V_{CE}=2V, I_C=3A$	30	-	-	
* Base-Emitter Voltage	V_{BE}	$V_{CE}=2V, I_C=3A$	-	-	1.5	V
* Saturation Voltage	Collector-Emitter	$V_{CE(sat)}$	-	-	0.8	V
	Base-Emitter	$V_{BE(sat)}$	-	-	1.5	V
Small Signal Forward Current Transfer Ratio	$ h_{fe} $	$V_{CE}=10V, I_C=0.5A$ $f=1MHz$	4	-	-	

* In Accordance with JEDEC Registration Data.

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

