

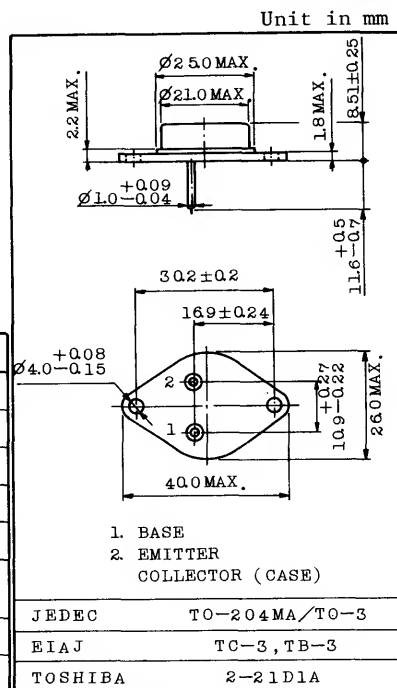
GENERAL PURPOSE POWER TRANSISTOR.
POWER REGULATOR, SWITCHING AND SOLENOID DRIVES
APPLICATIONS.

FEATURES:

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

MAXIMUM RATINGS (Ta=25°C)

	CHARACTERISTIC	SYMBOL	RATING	UNIT
*	Collector-Base Voltage	V _{CB0}	80	V
*	Collector-Emitter Voltage	V _{CE0}	60	V
*	Emitter-Base Voltage	V _{EB0}	7	V
*	Collector Current	I _C	10	A
*	Base Current	I _B	4	A
*	Collector Power Dissipation (T _c =25°C)	P _C	150	W
*	Thermal Resistance	θ _{jc}	1.17	°C/W
*	Junction Temperature	T _j	200	°C
*	Storage Temperature Range	T _{stg}	-65~200	°C



Weight : 12.6g

ELECTRICAL CHARACTERISTICS (Ta=25°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}	$V_{CE}=60V, V_{BE}=-1.5V$ $T_c=150^{\circ}C$	-	-	10	mA	
*	Emitter Cut-off Current	I_{EBO}	$V_{EB}=7V, I_C=0$	-	-	5	mA	
*	Collector-Emitter Sustaining Voltage	$V_{CEO(SUS)}$	$I_C=200mA, I_B=0$	60	-	-	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	$V_{CE(sat)}$	$I_C=5A, I_B=0.5A$	-	-	0.8	V
		Base-Emitter	$V_{BE(sat)}$	$I_C=5A, I_B=0.5A$	-	-	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 $V_{CE0(SUS)}$ MUST NOT be measured on a curve tracer.

