

# 2SC2204 2SC2220

HIGH POWER SWITCHING APPLICATIONS.  
HIGH FREQUENCY INVERTOR APPLICATIONS.

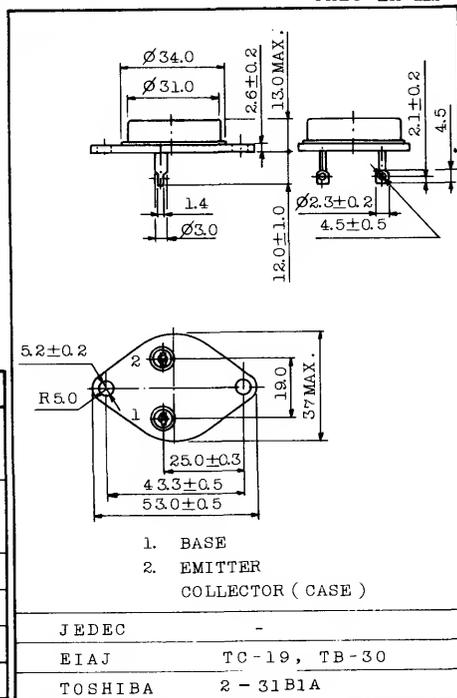
**FEATURES :**

- High Voltage :  $V_{CE0}=400V(\text{Min.})(2SC2204)$   
 $V_{CE0}=300V(\text{Min.})(2SC2220)$   
 $V_{CBO}=800V(\text{Min.})(2SC2204)$   
 $V_{CBO}=500V(\text{Min.})(2SC2220)$
- High Speed Switching :  $t_f=0.7\mu s(\text{Typ.})$

**MAXIMUM RATINGS (Ta = 25°C)**

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage	2SC2204	$V_{CBO}$	800	V
	2SC2220		500	
Collector-Emitter Voltage	2SC2204	$V_{CEO}$	400	V
	2SC2220		300	
Emitter-Base Voltage		$V_{EBO}$	5	V
Collector Current		$I_C$	30	A
Emitter Current		$I_E$	-30	A
Base Current		$I_B$	15	A
Collector Power Dissipation		$P_C$	250	W
Junction Temperature		$T_j$	150	°C
Storage Temperature Range		$T_{stg}$	-65~150	°C

Unit in mm



Mounting kit No.AC63  
Weight : 46g

**ELECTRICAL CHARACTERISTICS (Ta = 25°C)**

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	2SC2204	$I_{CBO}$	$V_{CB}=800V, I_E=0$	-	-	1.0	mA
	2SC2220		$V_{CB}=500V, I_E=0$	-	-	5	
Emitter Cut-off Current		$I_{EBO}$	$V_{EB}=5V, I_C=0$	-	-	5	mA
Collector-Emitter Breakdown Voltage	2SC2204	$V_{(BR)CEO}$	$I_C=20mA, I_B=0$	400	-	-	V
	2SC2220			300	-	-	
DC Current Gain		$h_{FE}$	$V_{CE}=5V, I_C=30A$	10	-	-	
Saturation Voltage	Collector-Emitter	$V_{CE(sat)}$	$I_C=30A, I_B=6A$	-	-	1.5	V
	Base-Emitter	$V_{BE(sat)}$	$I_C=30A, I_B=6A$	-	-	2.0	
Collector Output Capacitance		$C_{ob}$	$V_{CB}=50V, I_E=0, f=1MHz$	-	400	-	pF
Switching Time	Turn-on Time	$t_{on}$		-	1.2	1.5	µs
	Storage Time	$t_{stg}$		-	3.0	4.0	
	Fall Time	$t_f$		-	0.7	1.0	