

Unit in mm

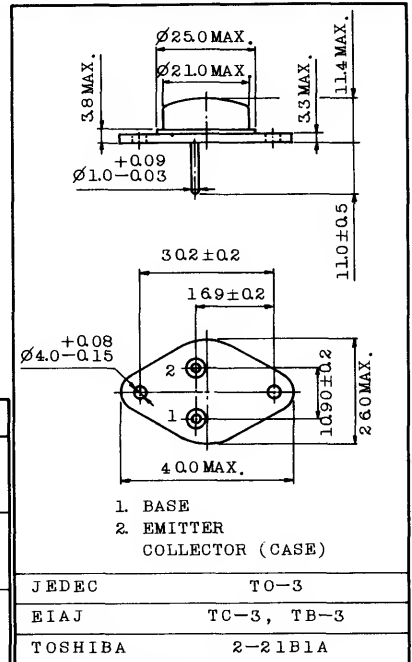
TV HORIZONTAL OUTPUT APPLICATIONS.

FEATURES:

- . High Voltage :  $V_{CES}=1300V$  (BU204)  
1500V (BU205)
- . High Speed :  $t_f=0.75 \mu s$  (Typ.)
- . Glass Passivated Collector-Base Junction

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Emitter Voltage ( $V_{BE}=0V$ )	BU204	1300	V
	BU205	1500	
Collector-Emitter Voltage ( $R_{BE}=100\Omega$ )	BU204	1300	V
	BU205	1500	
Transient Collector-Emitter Voltage (Flash-over)	BU204	1500	V
	BU205	1650	
Collector-Emitter Voltage (Open Base)	BU204	600	V
	BU205	700	
Collector Current	DC	$I_C$ 2.5	A
	Peak	$I_{CM}$ 3	
Transient Collector Current (Flash-over)	$I_C$ (Flash-over)	5	A
Base Current (Peak)	$I_{BM}$	2.5	A
Reverse Base Current	DC	$-I_B$ 100	mA
	Peak	$-I_{BM}$ 1.5	
Collector Power Dissipation ( $T_c \leq 90^\circ C$ )	$P_C$	10	W
Junction Temperature	$T_j$	115	$^\circ C$
Storage Temperature Range	$T_{stg}$	-65 ~ 115	$^\circ C$



Weight : 17.0g

# BU204·BU205

## ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		$I_{CES}$	$V_{BE}=0, V_{CE}=V_{CES}$	-	-	1	mA
DC Current Gain		$h_{FE}$	$V_{CE}=5V, I_C=2A$	2	-	-	
Emitter-Base Breakdown Voltage		$V_{(BR)EBO}$	$I_E=100mA, I_C=0$	5	-	-	V
Collector-Emitter Saturation Voltage		$V_{CE(sat)}$	$I_C=2A, I_B=1A$	-	-	5	V
Base-Emitter Saturation Voltage		$V_{BE(sat)}$	$I_C=2A, I_B=1A$	-	-	1.5	V
Collector-Emitter Sustaining Voltage	BU204	$V_{CEO(SUS)}$	$I_C=100mA, L=25mH$	600	-	-	V
	BU205			700	-	-	
Fall Time		$t_f$	$I_{CP}=2A, I_B(end)=1A$	-	0.75	-	$\mu s$
Collector Output Capacitance		$C_{ob}$	$V_{CB}=10V, I_E=0, f=1MHz$	-	95	-	pF
Transition Frequency		$f_T$	$V_{CE}=5V, f=5MHz$ $I_C=0.1A$	-	3	-	MHz