

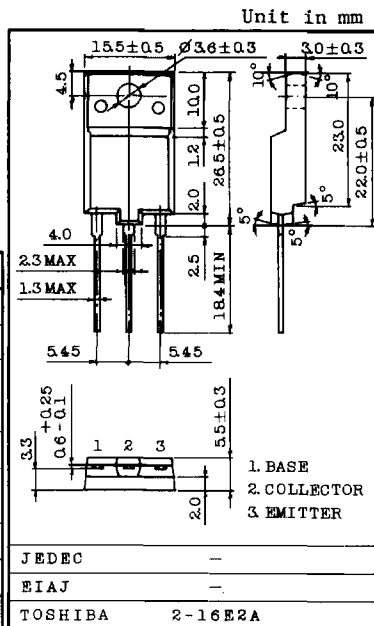
COLOR TV HORIZONTAL OUTPUT APPLICATIONS.

FEATURES:

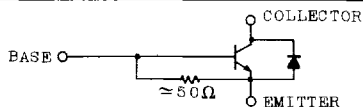
- . High Voltage : $V_{CES}=1500V$
- . Low Saturation Voltage : $V_{CE(sat)}=1V(\text{Max.})$
- . High Speed : $t_f=0.7\mu s(\text{Typ.})$
- . Built-in Damper Type
- . Glass Passivated Base-Collector Junction
- . Collector Metal (Fin) is Fully Covered with Mold Resin. (IS Package)

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Emitter Voltage	V_{CES}	1500	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	DC	I_C	8
	Peak	I_{CM}	15
Base Current (Peak)	I_{BM}	4	A
Total Power Dissipation (Infinite Heat Sink)	P_{tot}	50	W
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature Range	T_{stg}	-55~150	$^\circ C$
Thermal Resistance	$R_{th(j-c)}$	2.5	$^\circ C/W$



EQUIVALENT CIRCUIT



Weight : 5.7g

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CES}	$V_{BE}=0, V_{CE}=1500V$	-	-	1	mA
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_C=0, I_E=200mA$	5	-	-	V
DC Current Gain	h_{FE}	$V_{CE}=5V, I_C=4.5A$	2.25	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=4.5A, I_B=2A$	-	-	1	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=4.5A, I_B=2A$	-	-	1.5	V
Forward Voltage (Diode)	$-V_F$	$I_F=5A$	-	1.4	2.0	V
Collector-Emitter Sustaining Voltage	$V_{CEX(SUS)}$	$L=40mH, I_C=500mA, V_{BE}=-1.7V$	700	-	-	V
Transition Frequency	f_T	$V_{CE}=5V, I_C=0.1A$	-	3	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10V, I_E=0, f=1MHz$	-	125	-	pF
	Switching Time					μs
	Fall Time	t_f	-	0.7	-	
	Storage Time	t_s	-	10	-	