TOSHIBA

TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED MESA TYPE TENTATIVE

2 S D 2 5 5 9

HORIZONTAL DEFLECTION OUTPUT FOR COLOR TV

- High Voltage $: V_{CBO} = 1500 V$
- Low Saturation Voltage : $V_{CE (sat)} = 5 V (Max.)$
- Built-in Damper Type
- Collector Metal (Fin) is Fully Covered with Mold Resin.

	Unit in mm		
	1. BASE 2. COLLECTOR 3. EMITTER		
JEDEC -	_		
EIAJ –	-		
TOSHIBA 2-16E3A			
Weight : 5.5 g (Typ.)			

MAXIMUM RATINGS (Ta = 25° C)

CHARACTERISTIC		SYMBOL	RATING	UNIT	
Collector-Base Voltage		V _{CBO}	1500	V	
Collector-Emitter Voltage		VCEO	600	V	
Emitter-Base Voltage		VEBO	5	V	
Collector Current	DC	IC	8	А	
	Pulse	I _{CP}	16	А	
Base Current		IB	4	Α	
Collector Power Dissipation		PC	50	w	
$(Tc = 25^{\circ}C)$					
Junction Temperature		T_j	150	°C	
Storage Temperature Range		T_{stg}	$-55 \sim 150$	°C	

EQUIVALENT CIRCUIT



961	001	EAA1

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CHARAC	TERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-	off Current	ICBO	$V_{CB} = 1500 V, I_E = 0$		—	1	mA
Emitter Cut-o	ff Current	IEBO	$V_{EB} = 5 V, I_{C} = 0$	83		250	mA
Emitter-Base Voltage	Breakdown	V _{EBO}	$I_{E} = 300 \text{ mA}, I_{B} = 0$	5	_	-	v
DC Current G	DC Organization hFE (1)	$V_{CE} = 5 V, I_{C} = 1 A$	10	_	30		
DC Current G	rain	hFE (2)	$V_{CE} = 5 V, I_C = 6 A$	5	_	9	
Collector-Emit Voltage	ter Saturation	V _{CE (sat})	$I_{C} = 6 \text{ A}, I_{B} = 1.2 \text{ A}$	_	_	5	v
Base-Emitter Voltage	Saturation	V _{BE (sat)}	$I_{C} = 6 \text{ A}, I_{B} = 1.2 \text{ A}$	_	_	1.5	v
Forward Volta (Damper Diod	•	$-V_{\mathbf{F}}$	$I_F = 6 A$	_	_	1.8	v
Transition Fre	equency	f_{T}	$V_{CE} = 10 \text{ V}, \text{ I}_{C} = 0.1 \text{ A}$	—	2	—	MHz
Collector Outp	out Capacitance	C _{ob}	$V_{CB} = 10 \text{ V}, \text{ I}_{E} = 0, \text{ f} = 1 \text{ MHz}$		125	—	pF
Switching	Storage Time	$t_{ m stg}$	$I_{CP} = 6 \text{ A}, I_{B1} \text{ (end)} = 1.2 \text{ A}$	_	6	8.5	
Time	Fall Time	tf	$f_{\mathrm{H}} = 15.75 \mathrm{kHz}$	_	0.4	0.7	μ s

ELECTRICAL CHARACTERISTICS (Ta = 25°C)