Unit in mm

56C 07969 DT-33-13

## 2SD1429

SILICON NPN TRIPLE DIFFUSED MESA TYPE

COLOR TV HORIZONTAL OUTPUT APPLICATIONS.

## FEATURES:

. High Voltage

: V<sub>CBO</sub>=1500V

. Low Saturation Voltage : VCE(sat)=4V (Typ.)

. High Speed

:  $t_f=0.5\mu s$  (Typ.)

. Glass Passivated Collector-Base Junction

## MAXIMUM RATINGS (Ta=25°C)

SYMBOL	RATING	UNIT
V <sub>CBO</sub>	1500	V
VCEO	600	V
VEBO	5	V
IC	2,5	A
IE	-2.5	A
PC	80	W
Tj	150	°C
Tstg	<b>-55</b> ~ 150	°c
	V <sub>CBO</sub> V <sub>CEO</sub> V <sub>EBO</sub> IC IE P <sub>C</sub> T <sub>j</sub>	VCBO         1500           VCEO         600           VEBO         5           IC         2.5           IE         -2.5           PC         80           Tj         150

Ø3.6±0.2 160MAX. 1.8 MAX 4.0±03 2.3 MAX 1.2 MAX 1. BASE 2. COLLECTOR(HEAT SINK) 3. EMITTER JEDEC

2-16D1A TOSHIBA

Weight: 5.2g

EIAJ

## ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I <sub>CBO</sub>	V <sub>CB</sub> =500V, I <sub>E</sub> =0	-	-	10	μА
Emitter Cut-off Current	I <sub>EBO</sub>	V <sub>EB</sub> =5V, I <sub>C</sub> =0	-	-	1	mA
DC Current Gain	hFE	V <sub>CE</sub> =5V, I <sub>C</sub> =0.5A	8	20	-	
Collector-Emitter Saturation Voltage	V <sub>CE</sub> (sat)	I <sub>C</sub> =2.0A, I <sub>B</sub> =0.6A	-	4	8	V
Base-Emitter Saturation Voltage	V <sub>BE</sub> (sat)	I <sub>C</sub> =2.0A, I <sub>B</sub> =0.6A	-		1.5	V
Transition Frequency	fT	V <sub>CE</sub> =10V, I <sub>C</sub> =0.1A	-	3	-	MHz
Collector Output Capacitance	Cob	V <sub>CB</sub> =10V, I <sub>E</sub> =0, f=1MHz	-	95	_	pF
Fall Time (Fig.)	tf	$I_{CP}=2.0A, I_{B1}(end)=0.6A$	-	0.5	1.0	μs

