## 9097250 TOSHIBA (DISCRETE/OPTO)

### SILICON NPN TRIPLE DIFFUSED MESA TYPE

56C 07906 2SD1279

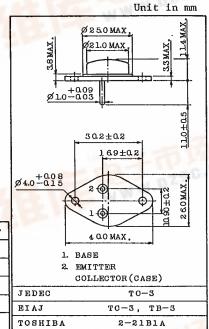
COLOR TV HORIZ. DEFLECTION OUTPUT APPLICATIONS. SWITCHING REGULATOR APPLICATIONS.

#### FEATURES:

- . Low Saturation Voltage : V<sub>CE</sub>(sat)=5V(Max.) (I<sub>C</sub>=8A, I<sub>B</sub>=2A)
- . High Speed : tf=1.0\mus(Max.)
- . Glass Passivated Collector-Base Junction.

# MAXIMUM RATINGS (TC=25°C)

TAXINOT IXITIOS (IC-25 G)			
CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	VCBO	1400	v
Collector-Emitter Voltage	VCEO	600	V
Emit <mark>ter-Base Voltag</mark> e	VEBO	5	V
Collector Current	IC	10	A
Base Current	IB	5	A
Collector Power Dissipation	PC	50	W
Junction Temperature	Tj	150	°c
Storage Temperature Range	Tstg	-65~150	°C



Weight: 17.0g

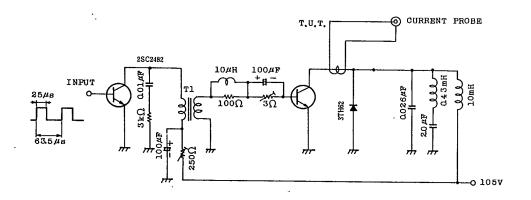
# ELECTRICAL CHARACTERISTICS (Tc=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	ICBO	V <sub>CB</sub> =500V, I <sub>E</sub> =0	-	-	10	μA
Emitter Cut-off Current	IEBO	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> =2A	8	22	-	
Collector-Emitter Saturation Voltage	V <sub>CE</sub> (sat)	I <sub>C</sub> =8A, I <sub>B</sub> =2A	-	-	5	٧
Base-Emitter Saturation Voltage	V <sub>BE</sub> (sat)	I <sub>C</sub> =8A, I <sub>B</sub> =2A		8	1.6	v
Transition Frequency	fT	V <sub>CE</sub> =10V, I <sub>C</sub> =0.1A		3	Alfa	MHz
Collector Output Capacitance	Cob	V <sub>CB</sub> =10V, I <sub>E</sub> =0, f=1MHz	-	165	-	pF
Collector Current Fall Time	tf	I <sub>CP</sub> =7A, I <sub>B1</sub> (end)=1.5A (Fig.)	-	-	1.0	μs

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56C 07907 DT-33-11

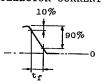
Fig. tf TEST CIRCUIT

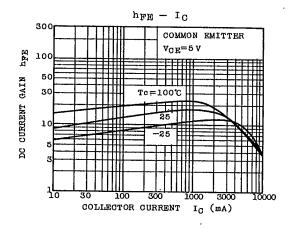


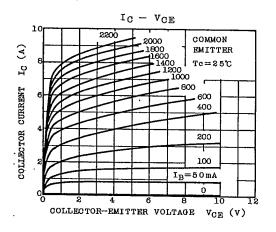
BASE CURRENT



COLLECTOR CURRENT







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