56C 07787 DT-33-15

2SD797

## SILICON NPN TRIPLE DIFFUSED TYPE

HGIH POWER AMPLIFIER APPLICATIONS. HIGH POWER SWITCHING APPLICATIONS. DC-DC CONVERTER APPLICATIONS. REGULATOR APPLICATIONS.

## FEATURES:

• High Power Dissipation : Pc=200W (Tc=25°C)

• High Collector Current :  $I_C=30A$ 

## MAXIMUM RATINGS (Ta=25°C)

SYMBOL	RATING	TINU
$v_{CBO}$	100	V
$v_{CEO}$	80	V
$v_{EBO}$	7	v
IC	30	A
IB	8	A
P <sub>C</sub>	200	W
Тj	175	°C
Tstg	-65∿175	°C
	V <sub>CBO</sub> V <sub>CEO</sub> V <sub>EBO</sub> I <sub>C</sub> I <sub>B</sub> P <sub>C</sub> T <sub>j</sub>	VCBO         100           VCEO         80           VEBO         7           IC         30           IB         8           PC         200           Tj         175

INDUSTRIAL APPLICATIONS

	Unit in mm
30MAX.	%25.0MAX. YAMOLTI
Øı	+0.09 .0-0.03
Ø4.0 - 0.3	20.2 ± 0.2
	1. BASE
_	2. EMITTER
4	COLLECTOR (CASE)
JEDEC	то — з
EIAJ	TC - 3, TB - 3
товни	3A 2 - 21 A 1 A

Mounting Kit No. AC73 Weight: 12.9g

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CECOTATIONE CHANACTERISTICS (IE-25 C)								
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Collector Cut-off Current		ICBO	VCB=100V, IE=0	-	-	100	μA	
Emitter Cut-off Current		IEBO	V <sub>EB</sub> =7V, I <sub>C</sub> =0	_	-	100	μA	
Collector-Emitter Breakdown Voltage		V(BR)CEO	I <sub>C</sub> =50mA, I <sub>B</sub> =0	80	1	-	v	
DC Current Gain		hFE(1) (Note)	V <sub>CE</sub> =5V, I <sub>C</sub> =1A	60		200		
		hrE(2)	V <sub>CE</sub> =5V, I <sub>C</sub> =15A	10	-	_	]	
Collector-Emitter Saturation Voltage		V <sub>CE</sub> (sat)	.IC=15A, IB=3A	-	0.6	1.5	v	
Base-Emitter Saturation Voltage		V <sub>BE(sat)</sub>		-	1.4	2.5	v	
Transition Frequency		$\mathbf{f_{T}}$	V <sub>CE</sub> =5V, I <sub>C</sub> =1A	-	1.5	-	MHz	
Collector Output Capacitance		Cob	V <sub>CB</sub> =10V, I <sub>E</sub> =0, f=1MHz	_	400	-	pF	
Switching Time	Turn-on Time	ton	I <sub>B1</sub> INPUT I <sub>B2</sub> OUTPUT	-	2.5	-		
	Storage Time	t <sub>stg</sub>			6	-	μs	
	Fall Time	t <sub>f</sub>	$I_{B1} = -I_{B2} = 0.5A$ $V_{CC} = 50V$ DUTY CYCLE $\leq 1\%$	-	1.5	-		

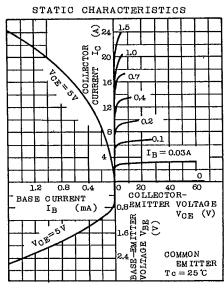
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9097250 TOSHIBA (DISCRETE/OPTO)

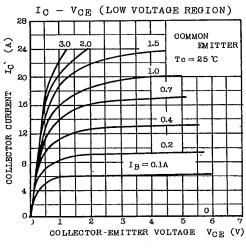
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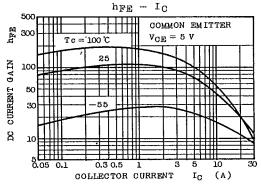
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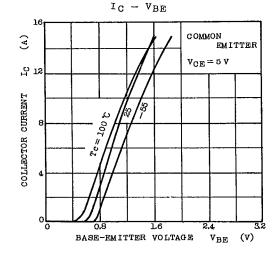
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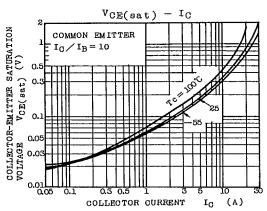










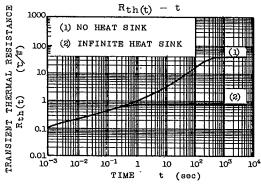


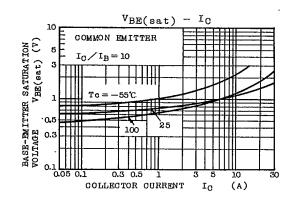
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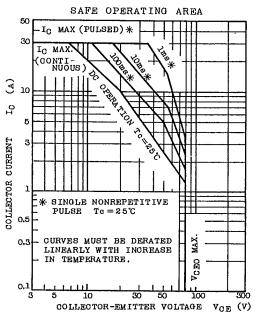
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