9097250 TOSHIBA (DISCRETE/OPTO)

560 07787

2SD797

SILICON NPN TRIPLE DIFFUSED TYPE

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

FEATURES:

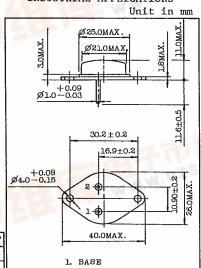
· High Power Dissipation : Pc=200W (Tc=25°C)

· High Collector Current : IC=30A

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V _{CBO}	100	V
Collector-Emitter Voltage	V _{CEO}	80	V
Emitter-Base Voltage	$v_{\rm EBO}$	7	V
Collector Current	IC	30	A
Base Current	IB	8	Α
Collector Power Dissipation 25°C	P _C	200	W
Junction Temperature	Tj	175	°C
Storage Temperature Range	Tstg	-65∿175	°C

INDUSTRIAL APPLICATIONS



2. EMITTER COLLECTOR (CASE)

JEDEC то — з EIAJ TC - 3, TB - 32 - 21A1A TOSHIBA

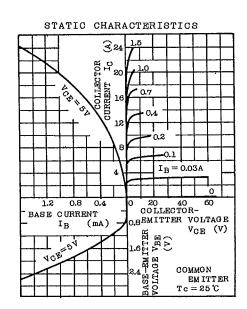
Mounting Kit No. AC73 Weight: 12.9g

	ELECTRICAL	CHARACTERISTICS	(Ta=	=25°C)
CHARACTERISTIC			SYMBO	
	Collector	Cut+off Current		Topo

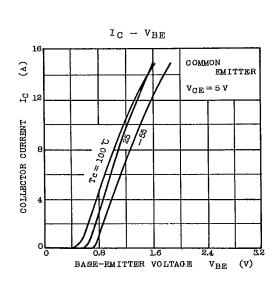
CHARAC	CTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-	off Current	ICBO	V _{CB} =100V, I _E =0	-	-	100	μA
Emitter Cut-of	f Current	IEBO	V _{EB} =7V, I _C =0	_	-	100	μA
Collector-Emitter Breakdown Voltage DC Current Gain		V (BR) CEO	I _C =50mA, I _B =0	80	-	-	v
		h _{FE} (1) (Note)	V _{CE} =5V, I _C =1A	60	-	200	
		hFE(2)	V _{CE} =5V, I _C =15A	10	-	_]
Collector-Emit Saturation Vol		V _{CE} (sat)	-	0.6	1.5	v	
Base-Emitter Saturation Voltage	V _{BE} (sat)	.I _C =15A, I _B =3A	-	1.4	2.5	v	
Transition Frequency		fT	V _{CE} =5V, I _C =1A	-	1.5	_	MHz
Collector Output Capacitance	Cob	V _{CB} =10V, I _E =0, f=1MHz	-	400	1	pF	
Switching	Turn-on Time	ton	INPUT IB1 OUTPUT	1	2.5	-	
Time	Storage Time	tstg	I _{B2} I _{B2}	-	6	-	μs
	Fall Time	t _f	$ \begin{array}{lll} I_{B1} = -I_{B2} = 0.5A & V_{CC} = 50V \\ DUTY & CYC LE \leq 1\% \end{array} $	-	1.5	_	-

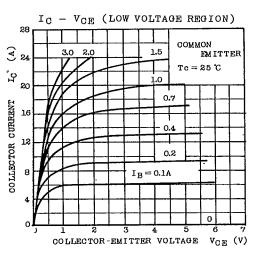
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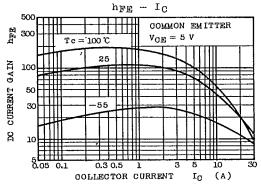
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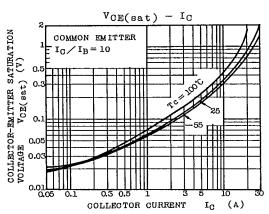


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SUMMEDIAN DESCRIPTION

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