9097250 TOSHIBA (DISCRETE/OPTO)

SILICON NPN TRIPLE DIFFUSED TYPE

2SC3180

POWER AMPLIFIER APPLICATIONS.

FEATURES:

- . Complementary to 2SA1263
- . Recommend for 40W High Fidelity Audio Frequency Amplifier Output Stage.

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT	
Collector-Base Voltage	v _{CBO}	80		
Collector-Emitter Voltage	VCEO	80	V	
Emitter-Base Voltage	V _{EBO}	5	V	
Collector Current	IC	6	A	
Base Current	IB	0.6	A	
Collector Power Dissipation (Tc=25 ^O C)	PC	60	W	
Junction Temperature	Tj	150	°c	
Storage Temperature Range	Tstg	-55~150	°c	

Unit in mm 15.9 MAX. 03.2±0.2 00.00 00.0

JEDEC EIAJ TOSHIBA 2-16BIA

Weight: 4.6g

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	ICBO	V _{CB} =80V, I _E =0	-	-	5.0	μA
Emitter Cut-off Current	I _{EBO}	V _{EB} =5V, I _C =0	-	-	5.0	μA
Collector-Emitter Breakdown Voltage	V(BR)CEO	I _C =50mA, I _B =0	80	-	-	V
DC Current Gain	h _{FE} (1) (Note)	v _{CE} =5V, I _C =1A	55	-	160	
	hFE(2)	$v_{CE}=5\dot{v}$, $i_{C}=3A$	35	75	-	
Collector Emitter Saturation Voltage	V _{CE} (sat)	I _C =5A, I _B =0.5A	-	0.45	2.0	V
Base-Emitter Voltage	VBE	V _{CE} =5V, I _C =3A	-	0.92	1.5	V
Transition Frequency	fT	V _{CE} =5V, I _C =1A	-	30	-	MHz
Collector Output Capacitance	Cob	V _{CB} =10V, I _E =0, f=1MHz	-	105	_	pF

Note: $h_{FE(1)}$ Classification, R: $55 \sim 110$ 0: $80 \sim 160$

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