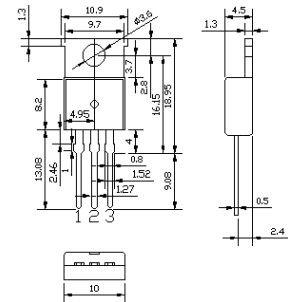


NPN SILICON TRIPLE DIFFUSED TRANSISTOR

...designed for audio frequency power amplifier applications.

MAXIMUM RATINGS (Ta = 25 °C)

Characteristic	Symbol	Value	Unit
Collector Base Voltage	V_{CBO}	60	V
Collector Emitter Voltage	V_{CEO}	60	V
Emitter Base Voltage	V_{EBO}	7	V
Collector Current	I_C	3	A
Base Current	I_B	0.5	A
Collector Power Dissipation $T_a = 25\text{ }^{\circ}\text{C}$	P_C	1.5	W
Collector Power Dissipation $T_c = 25\text{ }^{\circ}\text{C}$	P_C	30	W
Junction Temperature	T_J	150	$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}	-55 ~ 150	$^{\circ}\text{C}$

TO-220AB

- 1 : Base
2 : Collector (Heat Sink)
3 : Emitter

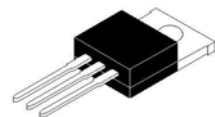
Weight: 1.9g

Unit in mm

ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector Cutoff Current	ICBO	V _{CB} =60V, I _E =0	-	-	100	μA
Emitter Cutoff Current	IEBO	V _{EB} =7V, I _B =0	-	-	100	μA
Collector Emitter Breakdown Voltage	V _{(BR)CEO}	I _C =50mA, I _B =0	60	-	-	V
DC Current Gain	hFE	V _{CE} =5V, I _C =0.5A	60	-	300	-
Collector Emitter Saturation Voltage	V _{CE(sat)}	I _C =3A, I _B =0.3A	-	0.25	1	V
Base Emitter Voltage	V _{BE}	V _{CE} =5V, I _C =0.5A	-	0.7	1	V
Transition Frequency	f _T	V _{CE} =5V, I _C =0.5A	-	3	-	MHz
Collector Output Capacitance	C _{ob}	V _{CE} =10V, I _E =0, f=1MHz	-	70	-	pF
Switching Time						
Turn On Time	t _{on}		-	0.8	-	μs
Storage Time	t _{stg}		-	1.5	-	μs
Fall Time	t _f		-	0.8	-	μs

**NPN SILICON
TRIPLE DIFFUSED
TRANSISTOR**



TO-220AB

CLASSIFICATIONS OF h_{FE}

Rank	O	Y	GR
Range	60 to 120	100 to 200	150 to 300

PMC reserves the right to make changes without further notice to any products herein. **PMC** makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does **PMC** assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation consequential damages. The examples of applied circuits are provided as reference to the reader therefore we shall not undertake any responsibility for the exercise of rights by third parties.