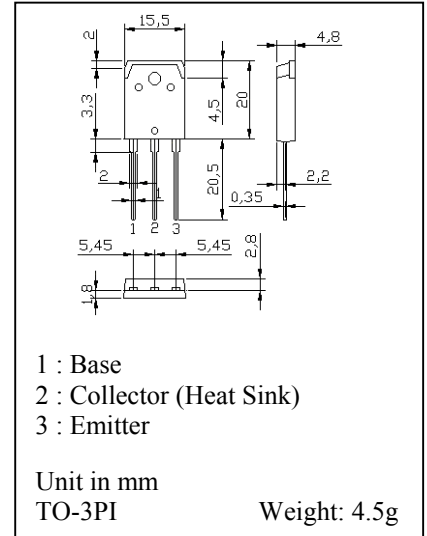


NPN SILICON TRIPLE DIFFUSED TRANSISTOR

...designed for power amplifier applications.

FEATURE:

- High Collector Breakdown Voltage: $V_{CE0} = 180V$ (Min.)
- Complementary to PMA1516
- Recommend for 80W High Fidelity Audio Frequency Amplifier Output Stage.



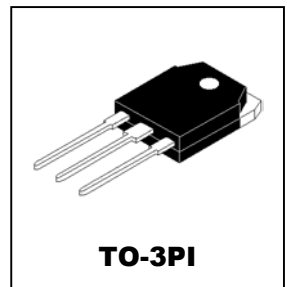
MAXIMUM RATINGS ($T_a = 25\text{ }^\circ\text{C}$)

Characteristic	Symbol	Value	Unit
Collector Base Voltage	V_{CBO}	180	V
Collector Emitter Voltage	V_{CEO}	180	V
Emitter Base Voltage	V_{EBO}	5	V
Collector Current	I_c	12	A
Base Current	I_B	1.2	A
Collector power Dissipation $T_c = 25\text{ }^\circ\text{C}$	P_c	130	W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 ~ 150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_a = 25\text{ }^\circ\text{C}$)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector Cutoff Current	I_{CBO}	$V_{CB} = 180V, I_E = 0$	-	-	5	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = 5V, I_C = 0$	-	-	5	μA
Collector Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 50mA, I_B = 0$	180	-	-	V
DC Current Gain	$h_{FE(1)}$	$V_{CE} = 5V, I_C = 1A$	55	-	180	-
	$h_{FE(2)}$	$V_{CE} = 5V, I_C = 7A$	35	70	-	-
Collector Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 8A, I_B = 0.8A$	-	0.3	2	V
Base Emitter Voltage	V_{BE}	$V_{CE} = 5V, I_C = 7A$	-	1	1.5	V
Transition Frequency	f_T	$V_{CE} = 5V, I_E = 1A$	-	30	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = 10V, I_E = 0, f = 1MHz$	-	270	-	pF

NPN SILICON TRIPLE DIFFUSED TRANSISTOR



Classification of $h_{FE(1)}$

Class	R	O
$h_{FE(1)}$	55 to 110	90 to 180

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.