

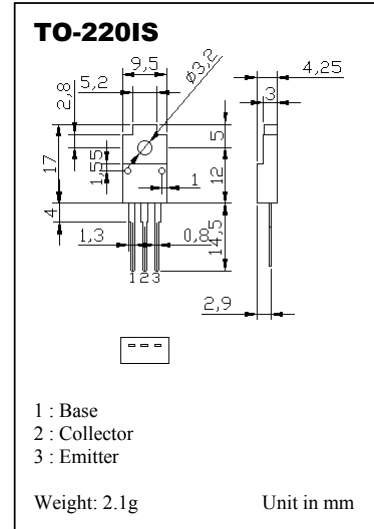
NPN SILICON EPITAXIAL PLANAR TRANSISTOR

...designed for Audio, Series Regulator and General Purpose

...Complementary to PMB1626

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

Characteristic	Symbol	Value	Unit
Collector Base Voltage	V_{CB0}	110	V
Collector Emitter Voltage	V_{CEO}	110	V
Emitter Base Voltage	V_{EBO}	5	V
Collector Current	I_C	6	A
Base Current	I_B	1	A
Collector Dissipation $T_c = 25^\circ\text{C}$	P_C	30	W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 ~ 150	$^\circ\text{C}$



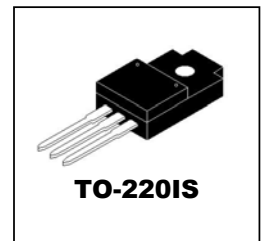
ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector Cutoff Current	I_{CBO}	$V_{CB} = -110\text{V}$	-	-	100	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = -5\text{V}$	-	-	100	μA
Collector Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -30\text{mA}$	110	-	-	V
DC Current Gain	h_{FE}	$V_{CE} = -4\text{V}, I_C = -5\text{A}$	5000	-	30000	-
Collector Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -5\text{A}, I_B = -5\text{mA}$	-	-	2.5	V
Base Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = -5\text{A}, I_B = -5\text{mA}$	-	-	3	V
Transition Frequency	f_T	$V_{CE} = -12\text{V}, I_E = -0.5\text{A}$	-	100	-	MHz
Output Capacitance	C_{ob}	$V_{CB} = -10\text{V}, f = 1\text{MHz}$	-	110	-	pF

**NPN SILICON
EPITAXIAL
PLANAR
TRANSISTOR**

CLASSIFICATIONS OF h_{FE}

Rank	O	P	Y
Range	5000 to 12000	6500 to 20000	15000 to 30000



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