

PU3211, PU4211, PU4511

加急出货

Package Dimensions

Silicon NPN Epitaxial Planar Type

Power Amplifier, Switching

Complementary Pair with PU3111, PU4111, PU4411

Features

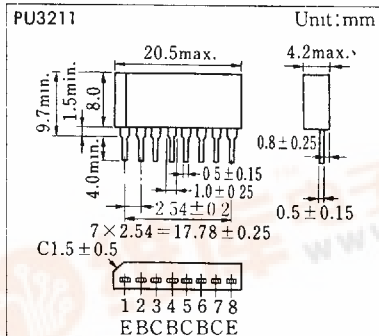
- Low collector-emitter saturation voltage ($V_{CE(sat)}$)
- Good linearity of DC current gain (h_{FE})
- High collector current (I_C)
- PU3211: 3 NPN elements
- PU4211: 4 NPN elements
- PU4511: 2 NPN elements (4 elements in total)

Absolute Maximum Ratings ($T_c=25^\circ C$)

Item	Symbol	Value	Unit
Collector-base voltage	V_{CBO}	-60	V
Collector-emitter voltage	V_{CEO}	-60	V
Emitter-base voltage	V_{EBO}	-5	V
Peak collector current	I_{CP}	-8	A
Collector current	I_C	-4	A
Power dissipation	P_D	15	W
Junction temperature	T_j	150	$^\circ C$
Storage temperature	T_{stg}	-55 ~ +150	$^\circ C$

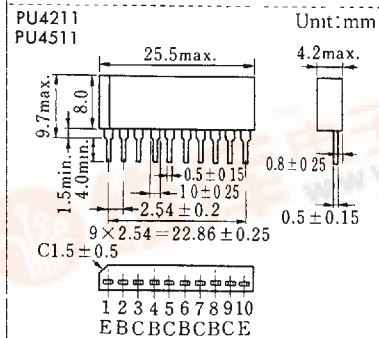
Electrical Characteristics ($T_c=25^\circ C$)

Item	Symbol	Condition	min.	typ.	max.	Unit
Collector cutoff current	I_{CFS}	$V_{CE} = -60V, V_{BE} = 0$			-400	μA
	I_{CFO}	$V_{CE} = -30V, I_B = 0$			-700	μA
Emitter cutoff current	I_{EBO}	$V_{IB} = -5V, I_C = 0$			-1	V
Collector-emitter voltage	V_{CEO}	$I_C = -30mA, I_B = 0$	-60			V
DC current gain	h_{FE1}	$V_{CE} = -4V, I_C = -1A$	70		250	
	h_{FE2}	$V_{CE} = -4V, I_C = -3A$	15			
Base-emitter voltage	V_{BE}	$V_{CE} = -4V, I_C = -3A$			-2	V
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -4A, I_B = -0.4A$			-1.5	V
Transition frequency	f_T	$V_{CE} = -10V, I_C = -0.1A, f = 1MHz$		20		MHz
Turn-on time	t_{on}	$I_C = -4A, I_{B1} = -0.4A, I_{B2} = 0.4A$		0.2		μs
Storage time	t_{stg}		0.5		μs	
Fall time	t_f		0.2		μs	



E : Emitter
B : Base
C : Collector

8-Lead Plastic SIL Package



E : Emitter
B : Base
C : Collector

10-Lead Plastic SIL Package

Inner Circuit

