

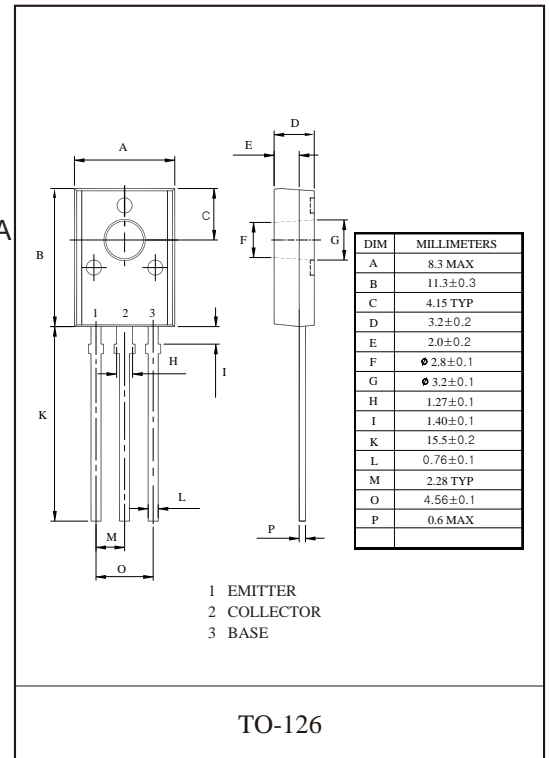
FTB649/A TRANSISTOR (PNP)

FEATURES

Low frequency power amplifier complementary pair with FTD669/A

MAXIMUM RATINGS (Ta=25 °C unless otherwise noted)

Symbol	Parameter	Value	Unit	
V _{CB0}	Collector-Base Voltage	-180	V	
V _{CE0}	Collector-Emitter Voltage	FTB649	-120	V
		FTB649A	-160	
V _{EBO}	Emitter-Base Voltage	-5	V	
I _c	Collector Current –Continuous	-1.5	A	
P _C	Collector Power Dissipation	1	W	
T _J	Junction Temperature	150	°C	
T _{stg}	Storage Temperature	-55-150	°C	



ELECTRICAL CHARACTERISTICS (Ta=25 °C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = -1mA, I _E = 0	-180			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = -10mA, I _B = 0	FTB649	-120		V
			FTB649A	-160		
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = -1mA, I _C = 0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} = -160V, I _E = 0			-10	µA
Emitter cut-off current	I _{EBO}	V _{EB} = -4V, I _C = 0			-10	µA
DC current gain	h _{FE(1)}	V _{CE} = -5V, I _C = -150mA	FTB649	60	320	
	h _{FE(2)}	V _{CE} = -5V, I _C = -500mA	FTB649A	60	200	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = -500mA, I _B = -50mA			-1	V
Base-emitter voltage	V _{BE}	V _{CE} = -5V, I _C = -150mA			-1.5	V
Transition frequency	f _T	V _{CE} = -5V, I _C = -150mA		140		MHz
Collector output capacitance	C _{ob}	V _{CB} = -10V, I _E = 0, f = 1MHz		27		pF

CLASSIFICATION OF h_{FE(1)}

Rank		B	C	D
Range	FTB649	60-120	100-200	160-320
	FTB649A	60-120	100-200	

