

MEDIUM POWER AMPLIFIER APPLICATIONS.

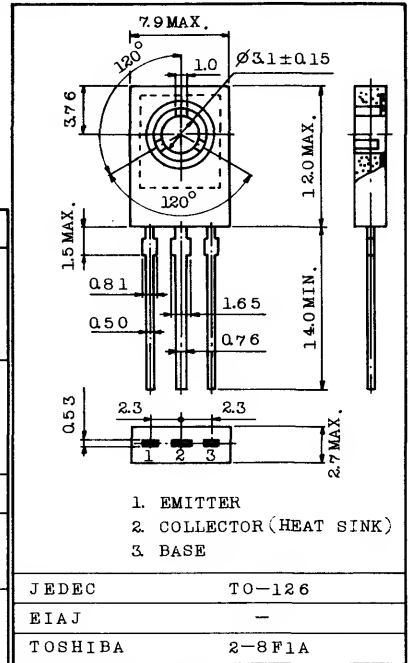
Unit in mm

FEATURES:

- Designed for Complementary Use with BD136, BD138 and BD140.

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage	BD135	V _{CBO}	45	V
	BD137		60	
	BD139		80	
Collector-Emitter Voltage	BD135	V _{CEO}	45	V
	BD137		60	
	BD139		80	
Emitter-Base Voltage		V _{EBO}	5	V
Collector Current	DC	I _C	0.5	A
	Peak	I _{CM}	1.5	
Collector Power Dissipation	Ta=25°C	P _C	1	W
	Tc≤60°C		6.5	
Junction Temperature		T _j	150	°C
Storage Temperature Range		T _{stg}	-55 ~ 150	°C



JEDEC	TO-18
EIAJ	-
TOSHIBA	2-8F1A

Weight : 0.72g

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		I _{CBO}	V _{CB} =30V, I _E =0	-	-	0.1	μA
			V _{CB} =30V, I _E =0, Ta=125°C	-	-	10	
Emitter Cut-off Current		I _{EBO}	V _{EB} =5V, I _C =0	-	-	10	μA
Collector-Emitter Breakdown Voltage	BD135	V(BR)CEO	I _C =30mA, I _B =0	45	-	-	V
	BD137			60	-	-	
	BD139			80	-	-	
DC Current Gain			h _{FE} (1)	V _{CE} =2V, I _C =5mA	25	-	
			h _{FE} (2)	V _{CE} =2V, I _C =150mA	40	-	
			h _{FE} (3)	V _{CE} =2V, I _C =500mA	25	-	
Collector-Emitter Saturation Voltage		V _{CE(sat)}	I _C =500mA, I _B =50mA	-	-	0.5	V
Base-Emitter Voltage		V _{BE}	V _{CE} =2V, I _C =500mA	-	-	1.0	V
Transition Frequency		f _T	V _{CE} =2V, I _C =50mA	50	250	-	MHz

BD135·BD137·BD139

