

/ Descriptions

TO-126F NPN Silicon NPN transistor in a TO-126F Plastic Package.

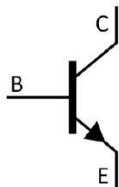
/ Features

V_{CEO} 60-80W 2SA1358
High V_{CEO} , suitable for driver of 60 to 80 watts audio amplifier, complementary to 2SA1358.

/ Applications

Audio frequency power amplifier applications.

/ Equivalent Circuit



/ Pinning



PIN1 Emitter PIN 2 Collector PIN 3 Base

/ h_{FE} Classifications & Marking

h_{FE} Classifications Symbol	O	Y
h_{FE} Range	80 160	120 240

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	120	V
Collector to Emitter Voltage	V_{CEO}	120	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current - Continuous	I_C	1.0	A
Base Current – Continuous	I_B	100	mA
Collector Power Dissipation	P_C	1.5	W
Collector Power Dissipation	$P_C(T_c=25)$	10	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

CharacterTa=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=10mA \quad I_B=0$	120			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=120V \quad I_E=0$			0.1	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=5.0V \quad I_C=0$			0.1	μA
DC Current Gain	h_{FE}	$V_{CE}=5.0V \quad I_C=100mA$	80		240	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=500mA \quad I_B=50mA$		0.30	1.0	V
Base to Emitter Voltage	V_{BE}	$V_{CE}=5.0V \quad I_C=500mA$		0.78	1.0	V
Transition Frequency	f_T	$V_{CE}=5.0V \quad I_C=100mA$		120		MHz
Collector output capacitance	C_{ob}	$V_{CB}=10V \quad I_E=0$ $f=1.0MHz$		15		pF

/ Electrical Characteristic Curve

