2SC3421

Rev.E Mar.-2016

蓝箭电子 BLUE ROCKET ELECTRONICS

DATA SHEET

/ Descriptions

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

/ Features

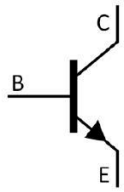
V_{CEO}	60-80W	2SA1358

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

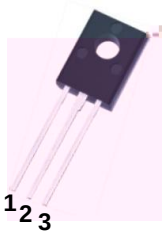
/ Applications

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

/ Electrical Characteristic Curve

