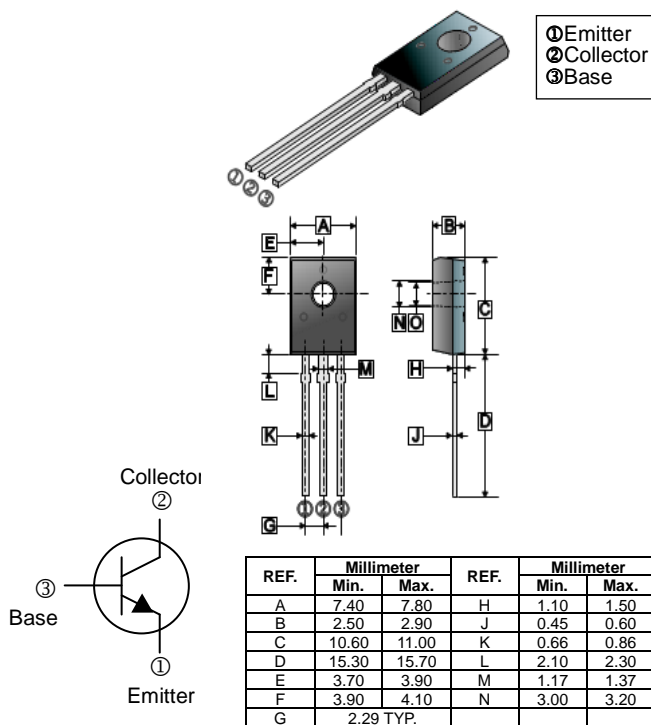


RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

## FEATURES

- Low frequency power amplifier
- High Current

TO-18



## ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub>=25°C unless otherwise specified)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V <sub>CBO</sub>	50	V
Collector to Emitter Voltage	V <sub>CEO</sub>	50	V
Emitter to Base Voltage	V <sub>EBO</sub>	5	V
Collector Current - Continuous	I <sub>C</sub>	3	A
Maximum Junction to Ambient	R <sub>θJA</sub>	125	°C / W
Collector Power Dissipation	P <sub>C</sub>	1	W
Junction, Storage Temperature	T <sub>J</sub> , T <sub>STG</sub>	150, -55~150	°C

## ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector to Base Breakdown Voltage	V <sub>(BR)CBO</sub>	50	-	-	V	I <sub>C</sub> =100μA, I <sub>E</sub> =0
Collector to Emitter Breakdown Voltage	V <sub>(BR)CEO</sub>	50	-	-	V	I <sub>C</sub> =5mA, I <sub>B</sub> =0
Emitter to Base Breakdown Voltage	V <sub>(BR)EBO</sub>	5	-	-	V	I <sub>E</sub> =100μA, I <sub>C</sub> =0
Collector Cut – Off Current	I <sub>CBO</sub>	-	-	1	μA	V <sub>CB</sub> =50V, I <sub>E</sub> =0
Emitter Cut – Off Current	I <sub>EBO</sub>	-	-	1	μA	V <sub>EB</sub> =3V, I <sub>C</sub> =0
DC Current Gain <sup>1</sup>	h <sub>FE</sub>	100	-	-		V <sub>CE</sub> =2V, I <sub>C</sub> =20mA
		100	-	400		V <sub>CE</sub> =2V, I <sub>C</sub> =1A*
Collector to Emitter Saturation Voltage	V <sub>CE(sat)</sub>	-	-	0.5	V	I <sub>C</sub> =2A, I <sub>B</sub> =200mA
Base-emitter saturation voltage	V <sub>BE(sat)</sub>	-	-	2	V	I <sub>C</sub> =2A, I <sub>B</sub> =200mA
Transition Frequency	f <sub>T</sub>	-	80	-	MHz	V <sub>CE</sub> =5V, I <sub>C</sub> =100mA
Collector output capacitance	C <sub>ob</sub>	-	45	-	pF	V <sub>CB</sub> =10V, I <sub>E</sub> =0, f=1MHz

Note:

1. Pulse test: pulse width ≤300μs, duty cycles ≤ 2.0%.