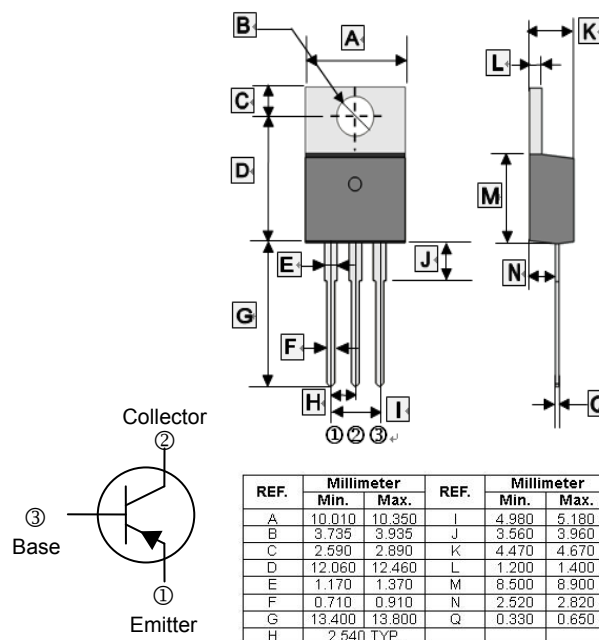


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- General Purpose Switching and Amplification.
- Wide ASO (Adoption of MBIT Process)
- Low Saturation Voltage.

TO-220J



ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V _{CB0}	-60	V
Collector to Emitter Voltage	V _{CE0}	-60	V
Emitter to Base Voltage	V _{EBO}	-6	V
Collector Current - Continuous	I _C	-3	A
Collector Power Dissipation	P _C	2	W
Junction, Storage Temperature	T _J , T _{STG}	150, -55~150	°C

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

Parameter	Symbol	Min	Typ	Max	Unit	Test condition
Collector to Base Breakdown Voltage	V _{(BR)CBO}	-60	-	-	V	I _C = -1mA, I _E =0
Collector to Emitter Breakdown Voltage	V _{(BR)CEO}	-60	-	-	V	I _C = -5mA, I _B =0
Emitter to Base Breakdown Voltage	V _{(BR)EBO}	-6	-	-	V	I _E = -1mA, I _C =0
Collector Cut-Off Current	I _{CBO}	-	-	-0.1	μA	V _{CB} = -40V, I _E =0
Emitter Cut-Off Current	I _{EBO}	-	-	-0.1	μA	V _{EB} = -4V, I _C =0
DC Current Gain	h _{FE}	100	-	200		V _{CE} = -5V, I _C = -500mA
		20	-	-		V _{CE} = -5V, I _C = -3A
Collector to Emitter Saturation Voltage	V _{CE(sat)}	-	-	-1	V	I _C = -2A, I _B = -200mA
Base to Emitter Saturation Voltage	V _{BE(sat)}	-	-	-1	V	V _{CE} = -5V, I _C = -500mA
Transition Frequency	f _T	-	100	-	MHz	V _{CE} = -5V, I _C = -500mA
Collector output capacitance	C _{ob}	-	60	-	pF	V _{CB} = -10V, I _E =0, f=1MHz