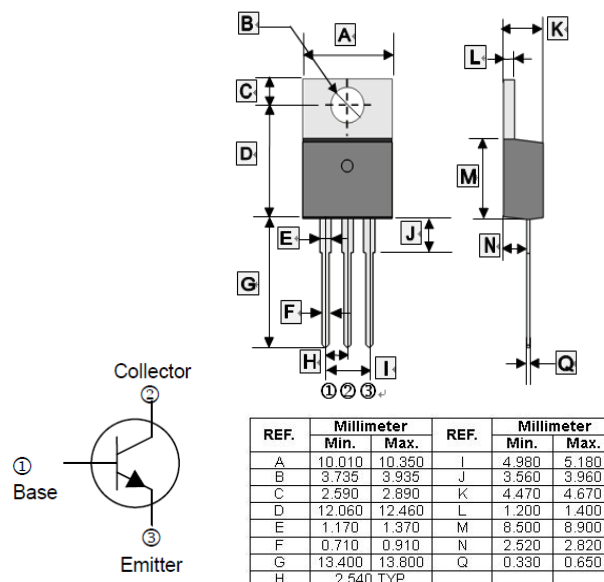


RoHS Compliant Product
A suffix of "-C" specifies halogen and lead free

FEATURES

- Medium Power Linear Switching Applications

TO-220J



ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Ratings		Unit
		TIP41	TIP41C	
Collector - Base Voltage	V_{CBO}	40	100	V
Collector - Emitter Voltage	V_{CEO}	40	100	V
Emitter - Base Voltage	V_{EBO}	5		V
Collector Current -Continuous	I_C	6		A
Collector Power Dissipation	P_C	2		W
Junction, Storage Temperature	T_J, T_{STG}	150, -55~150		$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector - Base Breakdown Voltage	TIP41	40	-	-	V	$I_C=1\text{mA}, I_E=0$
	TIP41C	100	-	-		
Collector - Emitter Breakdown Voltage	TIP41	40	-	-	V	$I_C=30\text{mA}, I_B=0$
	TIP41C	100	-	-		
Emitter - Base Breakdown Voltage	$V_{(BR)EBO}$	5	-	-	V	$I_E=1\text{mA}, I_C=0$
Collector Cut - Off Current	TIP41	400	-	-	μA	$V_{CB}=40\text{V}, I_E=0$
	TIP41C					$V_{CB}=100\text{V}, I_E=0$
Collector Cut-Off Current	TIP41	0.7	-	-	mA	$V_{CE}=30\text{V}, I_B=0$
	TIP41C					$V_{CE}=60\text{V}, I_B=0$
Emitter Cut-Off Current	I_{EBO}	-	-	1	mA	$V_{EB}=5\text{V}, I_C=0$
DC Current Gain	h_{FE}	30	-	-		$V_{CE}=4\text{V}, I_C=0.3\text{A}$
		15	-	75		$V_{CE}=4\text{V}, I_C=3\text{A}$
Collector - Emitter Saturation Voltage	$V_{CE(sat)}$	-	-	1.5	V	$I_C=6\text{A}, I_B=0.6\text{A}$
Base - Emitter Voltage	V_{BE}	-	-	2	V	$V_{CE}=4\text{V}, I_C=6\text{A}$
Transition Frequency	f_T	3	-	-	MHz	$V_{CE}=10\text{V}, I_C=0.5\text{A}, f=1\text{MHz}$

RATINGS AND CHARACTERISTIC CURVES

