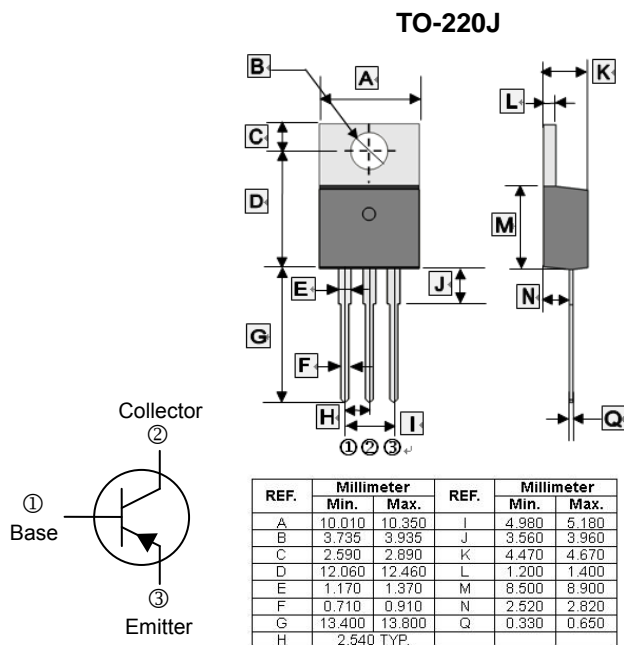


RoHS Compliant Product
A suffix of "-C" specifies halogen and lead free

FEATURES

- Medium Power Linear Switching Applications



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

Parameter	Symbol	Ratings		Unit
		TIP32	TIP32C	
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	-3		A
Collector Power Dissipation	P_C	2		W
Maximum Junction to Ambient	$R_{\theta JA}$	62.5		$^{\circ}\text{C} / \text{W}$
Junction, Storage Temperature	T_J, T_{STG}	150, -55~150		$^{\circ}\text{C}$

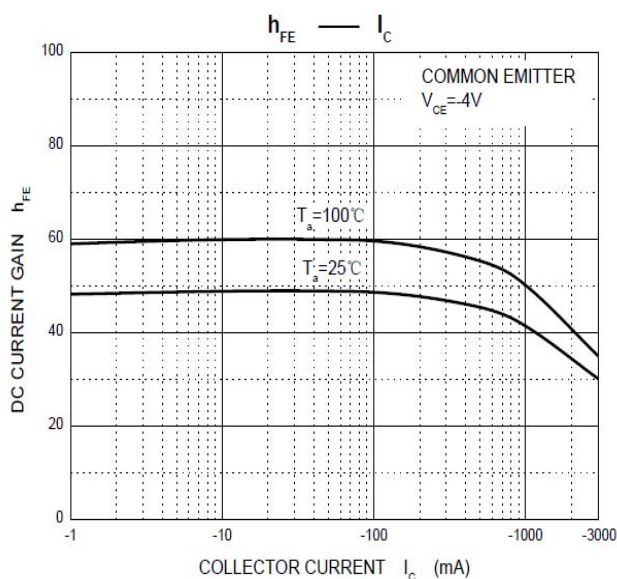
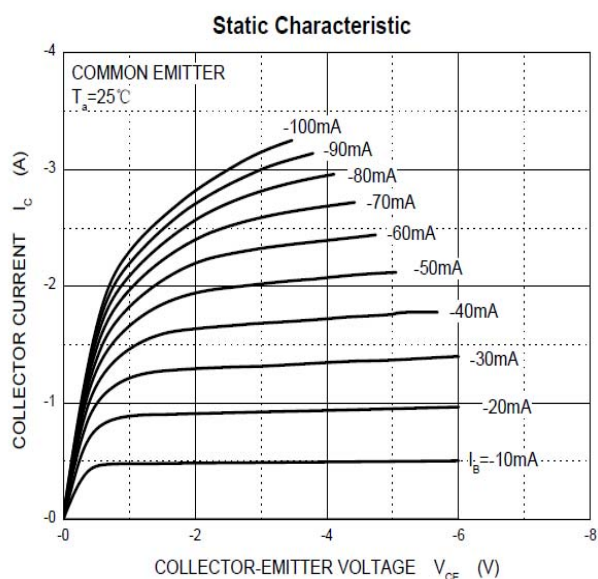
ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector-Base Breakdown Voltage	TIP32	-40	-	-	V	$I_C = -1\text{mA}, I_E = 0$
	TIP32C	-100	-	-		
Collector-Emitter Breakdown Voltage ¹	TIP32	-40	-	-	V	$I_C = -30\text{mA}, I_B = 0$
	TIP32C	-100	-	-		
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5	-	-	V	$I_E = -1\text{mA}, I_C = 0$
Collector Cut-Off Current	TIP32	-	-	-200	μA	$V_{CB} = -40\text{V}, I_E = 0$
	TIP32C					$V_{CB} = -100\text{V}, I_E = 0$
Collector Cut-Off Current	TIP32	-	-	-0.3	mA	$V_{CE} = -30\text{V}, I_B = 0$
	TIP32C					$V_{CE} = -60\text{V}, I_B = 0$
Emitter Cut-Off Current	I_{EBO}	-	-	-1	mA	$V_{EB} = -5\text{V}, I_C = 0$
DC Current Gain	h_{FE}	25	-	-		$V_{CE} = -4\text{V}, I_C = -1\text{A}$
		15	-	75		$V_{CE} = -4\text{V}, I_C = -3\text{A}$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	-	-	-1.2	V	$I_C = -3\text{A}, I_B = -0.375\text{A}$
Base-Emitter Voltage	V_{BE}	-	-	-1.8	V	$V_{CE} = -4\text{V}, I_C = -3\text{A}$
Transition Frequency	f_T	3	-	-	MHz	$V_{CE} = -10\text{V}, I_C = -0.5\text{A}$

Notes :

1. Pulse Test: $PW \leq 300\mu\text{s}$, Duty Cycle $\leq 2\%$.

CHARACTERISTIC CURVE



CHARACTERISTIC CURVE

