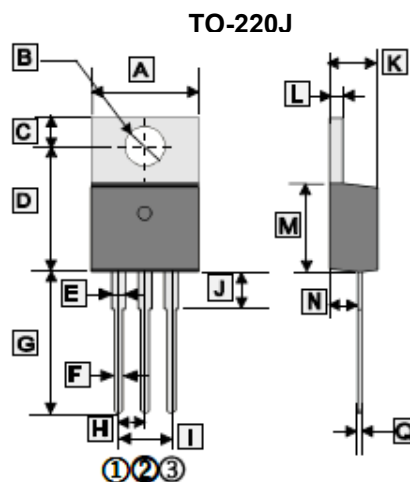
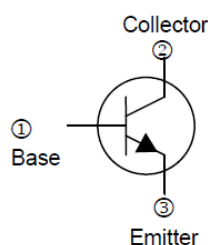


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Low saturation voltage
- Excellent DC current gain characteristic



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	9.57	10.57	I	4.68	5.48
B	3.54	4.14	J	2.95	3.96
C	2.54	2.94	K	4.27	4.87
D	11.86	13.26	L	1.07	1.47
E	0.97	1.57	M	8.0	10.0
F	0.51	1.11	N	2.03	2.92
G	12.7	13.8	Q	0.30	0.65
H	2.540 TYP.				

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

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	80	V
Collector to Emitter Voltage	V_{CEO}	60	V
Emitter to Base Voltage	V_{EBO}	5	V
Continuous Collector Current	I_C	3	A
Collector Power Dissipation	P_C	2	W
Junction and 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 Condition
Collector to Base Breakdown Voltage	$V_{(BR)CBO}$	80	-	-	V	$I_C=0.05\text{mA}, I_E=0$
Collector to Emitter Breakdown Voltage	$V_{(BR)CEO}$	60	-	-	V	$I_C=1\text{mA}, I_B=0$
Emitter to Base Breakdown Voltage	$V_{(BR)EBO}$	5	-	-	V	$I_E=0.05\text{mA}, I_C=0$
Collector Cut-Off Current	I_{CBO}	-	-	10	μA	$V_{CB}=60\text{V}, I_E=0$
Emitter Cut-Off Current	I_{EBO}	-	-	10	μA	$V_{EB}=4\text{V}, I_C=0$
DC Current Gain	h_{FE}	100	-	320		$V_{CE}=5\text{V}, I_C=0.5\text{A}$
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	-	-	1	V	$I_C=2\text{A}, I_B=200\text{mA}$
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	-	-	1.5	V	$I_C=2\text{A}, I_B=200\text{mA}$
Transition Frequency	f_T	-	8	-	MHz	$V_{CE}=5\text{V}, I_C=0.5\text{A}, f=5\text{MHz}$
Collector Output Capacitance	C_{ob}	-	70	-	pF	$V_{CB}=10\text{V}, I_E=0, f=1\text{MHz}$

CHARACTERISTIC CURVES

Static Characteristic

