

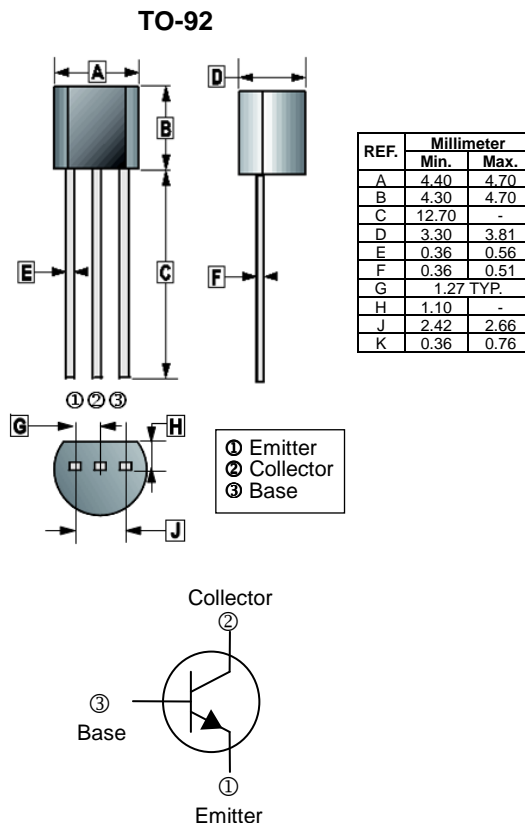
RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Low Saturation Voltage
- Ideal for Low Voltage, High Current Drives
- High DC Current Gain and High Current

CLASSIFICATION OF h_{FE}

Product-Rank	2SD1468-Q	2SD1468-R	2SD1468-S
Range	120~270	180~390	270~560



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

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CB0}	30	V
Collector to Emitter Voltage	V_{CEO}	15	V
Emitter to Base Voltage	V_{EBO}	5	V
Collector Current - Continuous	I_C	1	A
Collector Power Dissipation	P_C	625	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 Condition
Collector to Base Breakdown Voltage	$V_{(BR)CB0}$	30	-	-	V	$I_C=50\mu\text{A}, I_E=0$
Collector to Emitter Breakdown Voltage	$V_{(BR)CEO}$	15	-	-	V	$I_C=1\text{mA}, I_B=0$
Emitter to Base Breakdown Voltage	$V_{(BR)EBO}$	5	-	-	V	$I_E=50\mu\text{A}, I_C=0$
Collector Cut - Off Current	I_{CBO}	-	-	0.5	μA	$V_{CB}=20\text{V}, I_E=0$
Emitter Cut - Off Current	I_{EBO}	-	-	0.5	μA	$V_{EB}=4\text{V}, I_C=0$
DC Current Gain	h_{FE}	120	-	560		$V_{CE}=3\text{V}, I_C=100\text{mA}$
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	-	-	0.4	V	$I_C=500\text{mA}, I_B=50\text{mA}$
Transition Frequency	f_T	50	-	-	MHz	$V_{CE}=5\text{V}, I_C=50\text{mA}, f=100\text{MHz}$
Collector Output Capacitance	C_{ob}	-	-	30	pF	$V_{CB}=10\text{V}, I_E=0, f=1\text{MHz}$