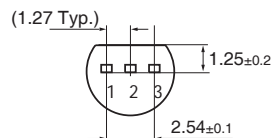
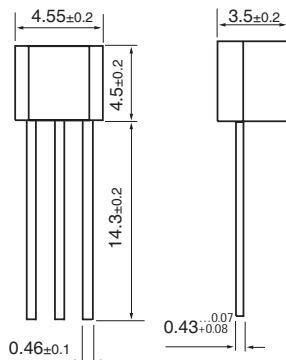


RoHS Compliant Product

A suffix of "-C" specifies halogen and lead free

TO-92



1: Emitter
2: Collector
3: Base

FEATURES

- Power Dissipation

ABSOLUTE MAXIMUM RATINGS at Ta = 25°C

Parameter	Symbol	Ratings	Unit
Collector to Base Voltage	V_{CBO}	-50	V
Collector to Emitter Voltage	V_{CEO}	-50	V
Emitter to Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-150	mA
Total Power Dissipation	P_D	400	mW
Junction, Storage Temperature	T_J, T_{STG}	+125, -55 ~ +125	°C

ABSOLUTE MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS at Ta = 25°C

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
$V_{(BR)CBO}$	-50	-	-	V	$I_C = -100\mu A, I_E = 0$
$V_{(BR)CEO}$	-50	-	-	V	$I_C = -0.1 mA, I_B = 0$
$V_{(BR)EBO}$	5	-	-	V	$I_E = -100\mu A, I_C = 0$
I_{CBO}	-	-	-0.1	μA	$V_{CB} = -50V, I_E = 0$
I_{CEO}	-	-	-0.1	μA	$V_{CE} = -50V, I_B = 0$
I_{EBO}	-	-	-0.1	μA	$V_{EB} = -5V, I_C = 0$
$V_{CE(sat)}$	-	-	-0.3	V	$I_C = -100mA, I_B = -10mA$
$V_{BE(sat)}$	-	-	-1.1	V	$I_C = -100mA, I_B = -10mA$
h_{FE}	70	-	400		$V_{CE} = -6V, I_C = -2mA$
f_T	80	-	-	MHz	$V_{CE} = -10V, I_C = -1mA, f = 30MHz$
C_{OB}			7	pF	$V_{CB} = -10V, I_E = 0, f = 1MHz$
NF			6	dB	$V_{CE} = -6V, I_C = -0.1mA, f = 1KHz, R_G = 10K$

CLASSIFICATION OF h_{FE}

Rank	O	Y	GR
Range	70 - 140	120 - 240	200 - 400

CHARACTERISTIC CURVES

