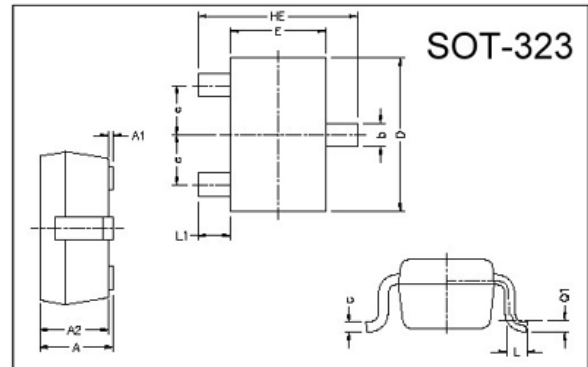
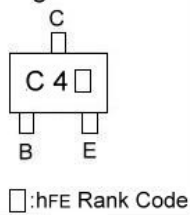


RoHS Compliant Product

## Description

The 2SC1815W is designed for use in driver stage of AF amplifier and general purpose amplification.

Marking :



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	0.80	1.10	L1	0.42 REF.	
A1	0	0.10	L	0.15	0.35
A2	0.80	1.00	b	0.25	0.40
D	1.80	2.20	c	0.10	0.25
E	1.15	1.35	e	0.65 REF.	
HE	1.80	2.40	Q1	0.15 BSC.	

## ABSOLUTE MAXIMUM RATINGS $T_a=25^\circ\text{C}$

Symbol	Parameter	Value	Units
$V_{CB0}$	Collector-Base Voltage	60	V
$V_{CE0}$	Collector-Emitter Voltage	50	V
$V_{EB0}$	Emitter-Base Voltage	5	V
$I_C$	Collector Current	150	mA
$P_D$	Total Power Dissipation	225	mW
$T_J, T_{stg}$	Junction and Storage Temperature	-55~+150	$^\circ\text{C}$

## ELECTRICAL CHARACTERISTICS $T_{amb}=25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Min	Typ.	Max	Unit	Test Conditions
Collector-Base Breakdown Voltage	$BV_{CB0}$	60	-	-	V	$I_C=100\mu\text{A}$
Collector-Emitter Breakdown Voltage	$BV_{CE0}$	50	-	-	V	$I_C=1\text{mA}$
Emitter-Base Breakdown Voltage	$BV_{EB0}$	5	-	-	V	$I_E=10\mu\text{A}$
Collector-Base Cutoff Current	$I_{CB0}$	-	-	100	nA	$V_{CB}=60\text{V}$
Emitter-Base Cutoff Current	$I_{EB0}$	-	-	100	nA	$V_{EB}=5\text{V}$
Collector Saturation Voltage	$*V_{CE(sat)}$	-	-	250	mV	$I_C=100\text{mA}, I_B=10\text{mA}$
Base Saturation Voltage	$*V_{BE(sat)}$	-	-	1	V	$I_C=100\text{mA}, I_B=10\text{mA}$
DC Current Gain	$*h_{FE1}$	120	-	700		$V_{CE}=6\text{V}, I_C=2\text{mA}$
	$*h_{FE2}$	25	-	-		$V_{CE}=6\text{V}, I_C=150\text{mA}$
Gain-Bandwidth Product	$f_T$	80	-	-	MHz	$V_{CE}=10\text{V}, I_C=1\text{mA}, f=100\text{MHz}$
Output Capacitance	$C_{ob}$	-	-	3.5	pF	$V_{CB}=10\text{V}, f=1\text{MHz}$

\*Pulse width  $\leq 380\mu\text{s}$ , Duty Cycle  $\leq 2\%$

## Classification of hFE

Rank	C4Y	C4G	C4B
Range	120~240	200~400	350~700

**Characteristics Curve**

