

## 2SC1740S

# $\begin{array}{c} 0.15A\ , 60V \\ NPN\ Plastic-Encapsulated\ Transistor \end{array}$

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

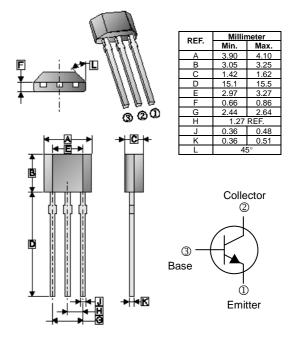
#### **FEATURES**

Low C<sub>ob</sub>

#### **CLASSIFICATION OF hFE**

Product-Rank	2SC1740S-Q	2SC1740S-R	2SC1740S-S
Range	120~270	180~390	270~560

**TO-92S** 



### **ABSOLUTE MAXIMUM RATINGS** ( $T_A=25$ °C unless otherwise specified)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	$V_{CBO}$	60	V
Collector to Emitter Voltage	$V_{\sf CEO}$	50	V
Emitter to Base Voltage	$V_{EBO}$	7	V
Collector Current - Continuous	Ic	150	mA
Collector Power Dissipation	Pc	300	mW
Junction, Storage Temperature	$T_J,T_STG$	150, -55~150	S

### **ELECTRICAL CHARACTERISTICS** (T<sub>A</sub>=25℃ unless otherwise specified)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Collector to Base Breakdown Voltage	$V_{(BR)CBO}$	60	-	-	V	I <sub>C</sub> =50μA, I <sub>E</sub> =0
Collector to Emitter Breakdown Voltage	$V_{(BR)CEO}$	50	-	-	V	$I_C=1$ mA, $I_B=0$
Emitter to Base Breakdown Voltage	$V_{(BR)EBO}$	7	-	-	V	I <sub>E</sub> =50μA, I <sub>C</sub> =0
Collector Cut-Off Current	I <sub>CBO</sub>	-	-	0.1	μΑ	$V_{CB}=60V$ , $I_{E}=0$
Emitter Cut-Off Current	I <sub>EBO</sub>	-	-	0.1	μΑ	$V_{EB}=7V$ , $I_{C}=0$
DC Current Gain	h <sub>FE</sub>	120	-	560		V <sub>CE</sub> =6V, I <sub>C</sub> =1mA
Collector to Emitter Saturation Voltage	V <sub>CE(sat)</sub>	-	-	0.4	V	I <sub>C</sub> =50mA, I <sub>B</sub> =5mA
Collector Output Capacitance	Cob	-	2	3.5	pF	V <sub>CB</sub> =12V, I <sub>E</sub> =0, f=1MHz
Transition Frequency	f <sub>T</sub>	100	-	-	MHz	V <sub>CE</sub> =12V, I <sub>C</sub> = -2mA, f=100MHz

http://www.SeCoSGmbH.com/

Any changes of specification will not be informed individually.

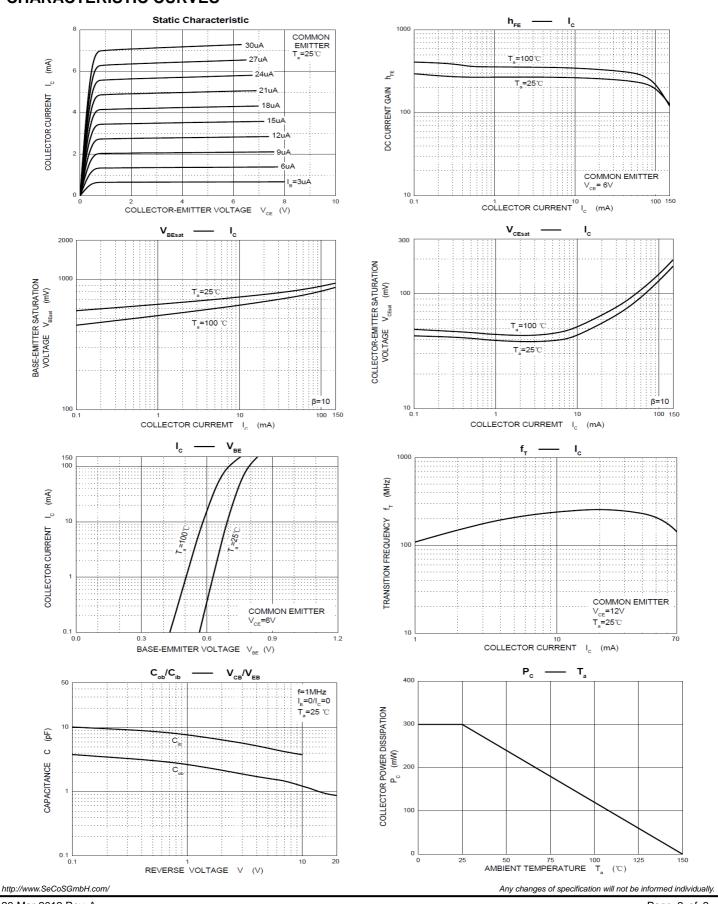
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#### **CHARACTERISTIC CURVES**



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