

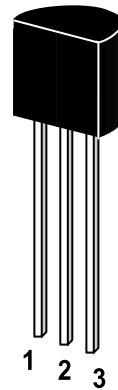
# ST 2SC732

## NPN Silicon Epitaxial Planar Transistor

for switching and AF amplifier applications.

The transistor is subdivided into two groups, G and L, according to its DC current gain.

On special request, these transistors can be manufactured in different pin configurations.



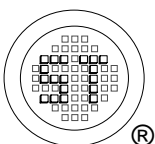
1. Emitter 2. Collector 3. Base

TO-92 Plastic Package

Weight approx. 0.19g

## Absolute Maximum Ratings (Ta=25°C)

	Symbol	Value	Unit
Collector Base Voltage	$V_{CBO}$	60	V
Collector Emitter Voltage	$V_{CEO}$	50	V
Emitter Base Voltage	$V_{EBO}$	5	V
Base Current	$I_B$	30	mA
Collector Current	$I_C$	150	mA
Power Dissipation	$P_{tot}$	400	mW
Junction Temperature	$T_j$	125	°C
Storage Temperature Range	$T_s$	-55 to +125	°C



**SEMTECH ELECTRONICS LTD.**

(Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



ISO/TS 16949 : 2002  
Certificate No. 05103



ISO 14001:2004  
Certificate No. 7116



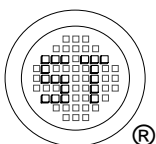
ISO 9001:2000  
Certificate No. 0506098

Dated : 07/12/2002

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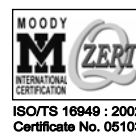
## Characteristics at $T_{amb}=25\text{ }^{\circ}\text{C}$

	Symbol	Min.	Typ.	Max.	Unit	
DC Current Gain at $V_{CE}=6\text{V}$ , $I_C=2\text{mA}$	Current Gain Group G L	$h_{FE}$	200	-	400	-
		$h_{FE}$	350	-	700	-
Base-Emitter Voltage at $V_{CE}=6\text{V}$ , $I_C=2\text{mA}$	$V_{BE}$	-	0.65	-	V	
Collector Cutoff Current at $V_{CB}=60\text{V}$	$I_{CBO}$	-	-	0.1	$\mu\text{A}$	
Emitter Cutoff Current at $V_{EB}=5\text{V}$	$I_{EBO}$	-	-	0.1	$\mu\text{A}$	
Collector Saturation Voltage at $I_C=10\text{mA}$ , $I_B=1\text{mA}$	$V_{CE(sat)}$	-	-	0.3	V	
Gain Bandwidth Product at $V_{CE}=6\text{V}$ , $I_C=1\text{mA}$	$f_T$	-	150	-	MHz	
Output Capacitance at $V_{CB}=10\text{V}$ , $f=1\text{MHz}$	$C_{OB}$	-	2	-	pF	
Noise Figure at $V_{CE}=6\text{V}$ , $I_C=0.1\text{mA}$ $f=100\text{Hz}$ , $R_G=10\text{K}\Omega$	NF(1)	-	0.5	6	V	
Noise Figure at $V_{CE}=6\text{V}$ , $I_C=0.1\text{mA}$ $f=1\text{KHz}$ , $R_G=10\text{K}\Omega$	NF(2)	-	0.2	3	V	



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Dated : 07/12/2002