

# 2SD734

## NPN Silicon Epitaxial Planar Transistor

for 1W Output, Electronic Governor, DC-DC  
Converter Applications.

The transistor is subdivided into four groups D, E,  
F and G, according to its DC current gain.

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



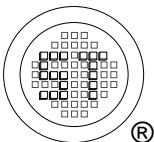
1. Emitter 2. Collector 3. Base  
TO-92 Plastic Package

### Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Collector Base Voltage	$V_{CBO}$	25	V
Collector Emitter Voltage	$V_{CEO}$	20	V
Emitter Base Voltage	$V_{EBO}$	5	V
Collector Current	$I_C$	700	mA
Collector Current (Pulse)	$I_{CP}$	1500	mA
Power Dissipation	$P_{tot}$	600	mW
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 55 to + 150	$^\circ\text{C}$

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

Parameter	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $V_{CE} = 2 \text{ V}$ , $I_C = 50 \text{ mA}$	$h_{FE}$	60	-	120	-
	$h_{FE}$	100	-	200	-
	$h_{FE}$	160	-	320	-
	$h_{FE}$	280	-	560	-
	$h_{FE}$	50	-	-	-
at $V_{CE} = 2 \text{ V}$ , $I_C = 500 \text{ mA}$					
Collector Base Cutoff Current at $V_{CB} = 20 \text{ V}$	$I_{CBO}$	-	-	1	$\mu\text{A}$
Emitter Base Cutoff Current at $V_{EB} = 4 \text{ V}$	$I_{EBO}$	-	-	1	$\mu\text{A}$
Gain Bandwidth Product at $V_{CE} = 10 \text{ V}$ , $I_C = 50 \text{ mA}$	$f_T$	-	250	-	MHz
Output Capacitance at $V_{CB} = 10 \text{ V}$ , $f = 1 \text{ MHz}$	$C_{ob}$	-	8	-	pF



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ISO9001:2000  
Certificate No. 160713000



ISO14001 : 2004  
Certificate No. 7116



ISO 9001 : 2008  
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BS OHSAS 18001 : 2007  
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IECQ QC 080000  
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