

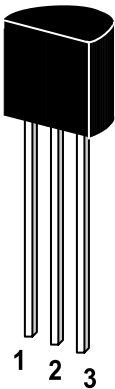
ST 28S

NPN Silicon Epitaxial Planar Transistor

for switching and amplifier applications. Especially suitable for AF-driver stages and low power output stages.

The transistor is subdivided into one group, according to its DC current gain.

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

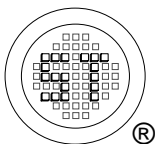


1. Emitter 2. Collector 3. Base

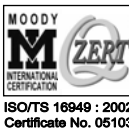
Weight approx. 0.19g
TO-92 Plastic Package

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

	Symbol	Value	Unit
Collector Base Voltage	V_{CBO}	40	V
Collector Emitter Voltage	V_{CEO}	20	V
Emitter Base Voltage	V_{EBO}	6	V
Collector Current	I_{C}	1	A
Peak Collector Current	I_{CM}	1.25	A
Base Current	I_{B}	100	mA
Power Dissipation	P_{tot}	850	mW
Junction Temperature	T_{j}	150	$^{\circ}\text{C}$
Storage Temperature Range	T_{s}	-55 to +150	$^{\circ}\text{C}$



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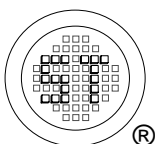


Dated : 11/06/2004

ST 28S

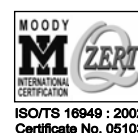
Characteristics at $T_{amb}=25^{\circ}C$

	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain					
at $V_{CE}=1V$, $I_C=5mA$	h_{FE}	45	170	-	-
at $V_{CE}=1V$, $I_C=100mA$	h_{FE}	200	-	1000	-
at $V_{CE}=1V$, $I_C=800mA$	h_{FE}	40	80	-	-
Collector Base Breakdown Voltage					
at $I_C=100\mu A$	$V_{(BR)CBO}$	40	-	-	V
Collector Emitter Breakdown Voltage					
at $I_C=2mA$	$V_{(BR)CEO}$	20	-	-	V
Emitter Base Breakdown Voltage					
at $I_E=100\mu A$	$V_{(BR)EBO}$	6	-	-	V
Collector Cutoff Current					
at $V_{CB}=35V$	I_{CBO}	-	-	100	nA
Emitter Cutoff Current					
at $V_{BE}=6V$	I_{EBO}	-	-	100	nA
Collector Saturation Voltage					
at $I_C=600mA$, $I_B=20mA$	$V_{CE(sat)}$	-	-	0.55	V
Base Saturation Voltage					
at $I_C=600mA$, $I_B=20mA$	$V_{BE(sat)}$	-	0.98	1.2	V
Base Emitter Voltage					
at $I_C=10mA$, $V_{CE}=1V$	V_{BE}	-	0.66	1.0	V
Gain Bandwidth Product					
at $V_{CE}=10V$, $I_C=50mA$	f_T	100	-	-	MHz
Collector Base Capacitance					
at $V_{CB}=10V$, $f=1MHz$	C_{OB}	-	-	9	pF



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