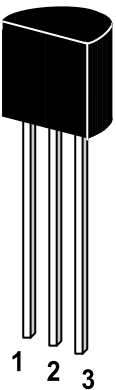


ST 2SD966

NPN Silicon Epitaxial Planar Transistor
for low-frequency power amplification and
stroboscope.

The transistor is subdivided into three groups P, Q
and R, according to its DC current gain.

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

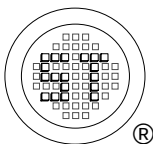


1. Emitter 2. Collector 3. Base

TO-92 Plastic Package
Weight approx. 0.19g

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

	Symbol	Value	Unit
Collector to Base Voltage	V_{CBO}	40	V
Collector to Emitter Voltage	V_{CEO}	20	V
Emitter to Base Voltage	V_{EBO}	7	V
Peak Collector Current	I_{CP}	8	A
Collector Current	I_{C}	5	A
Collector Power Dissipation	P_{C}	1	W
Junction Temperature	T_{j}	150	$^{\circ}\text{C}$
Storage Temperature Range	T_{s}	-55 to +150	$^{\circ}\text{C}$



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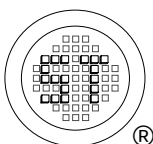


Dated : 07/12/2002

ST 2SD966

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

		Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $V_{CE}=2V$, $I_C=0.5A$ at $V_{CE}=2V$, $I_C=2A$	P	h_{FE}	120	-	250	-
	Q	h_{FE}	230	-	380	-
	R	h_{FE}	340	-	600	-
		h_{FE}	150	-	-	-
Collector Cutoff Current at $V_{CB}=10V$		I_{CBO}	-	-	0.1	μA
Emitter Cutoff Current at $V_{EB}=7V$		I_{EBO}	-	-	0.1	μA
Collector Output Capacitance at $V_{CB}=20V$, $f=1.0MHz$		Cob	-	-	50	pF
Collector to Emitter Voltage at $I_C=1mA$		V_{CEO}	20	-	-	V
Emitter to Base Voltage at $I_E=10\mu A$		V_{EBO}	7	-	-	V
Collector to Emitter Saturation Voltage at $I_C=3A$, $I_B=0.1A$		$V_{CE(sat)}$	-	-	1	V
Transition Frequency at $V_{CB}=6V$, $I_E=-50mA$, $f=200MHz$		f_T	-	150	-	MHz



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ISO/TS 16949 : 2002
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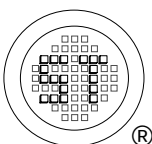
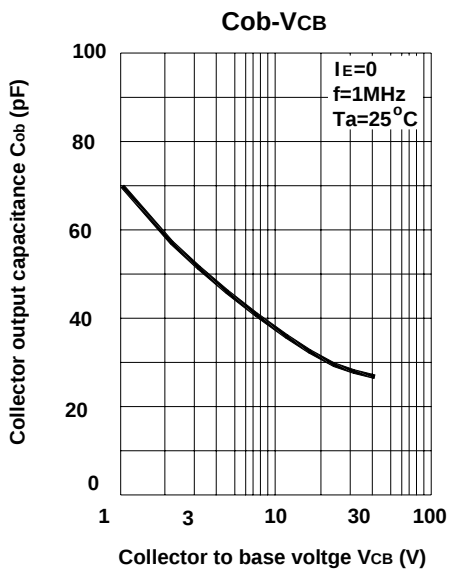
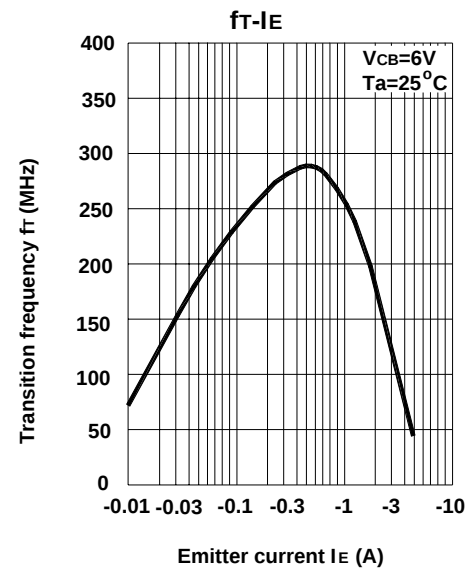
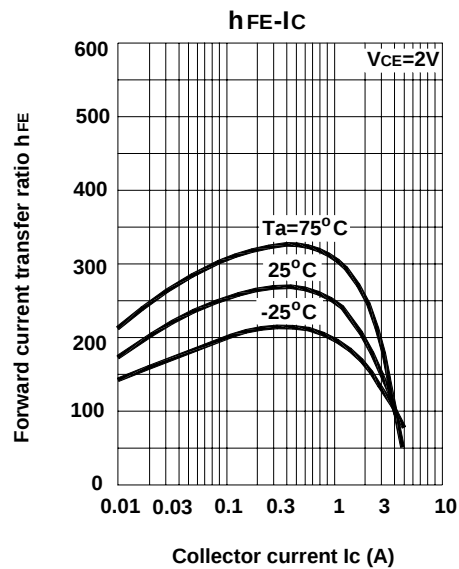
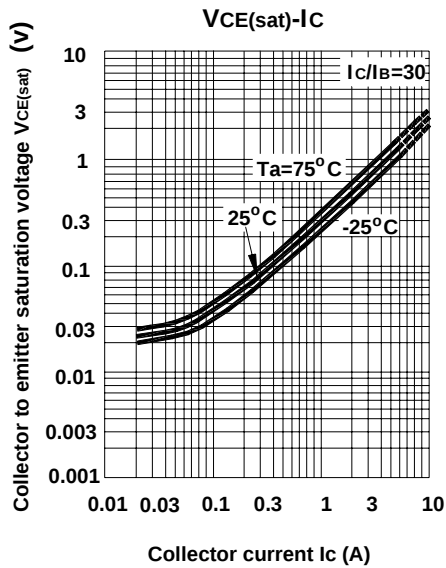
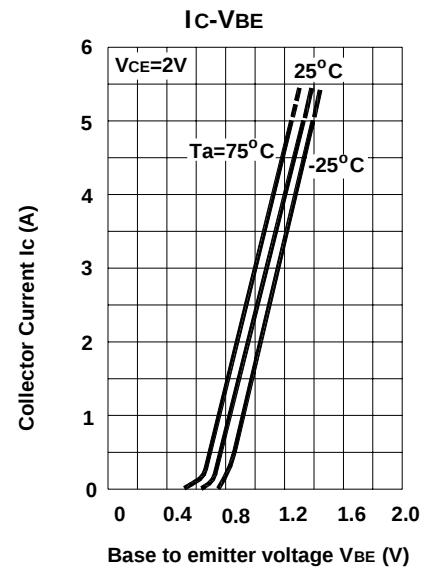
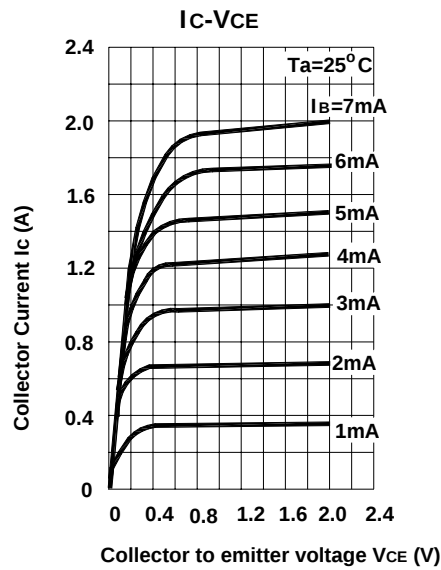
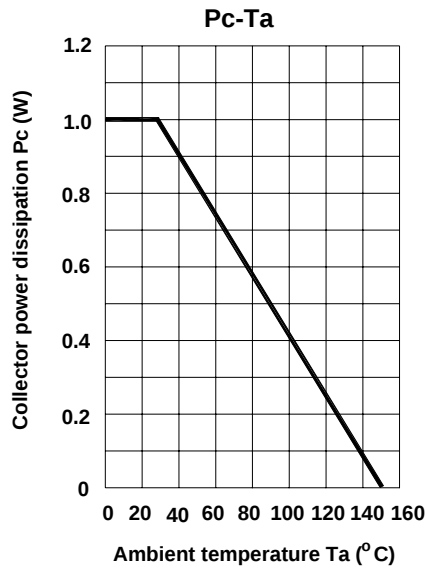


ISO 14001:2004
Certificate No. 7116



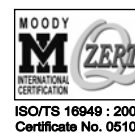
ISO 9001:2000
Certificate No. 0506098

Dated : 07/12/2002



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ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001:2004
Certificate No. 71116



ISO 9001:2000
Certificate No. 0506098

Dated : 07/12/2002