

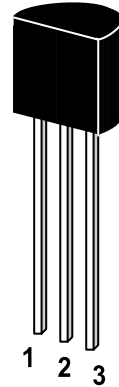
ST 2SD882S-Q/P/E

NPN Silicon Epitaxial Planar Transistor

for the output stage of 0.75W audio, voltage regulator, and relay driver.

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

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

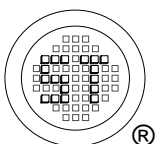


1. Emitter 2. Collector 3. Base

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}	30	V
Emitter to Base Voltage	V_{EBO}	5	V
Collector Current	I_{C}	3	A
Power Dissipation	P_{tot}	750	mW
Junction Temperature	T_{j}	150	$^\circ\text{C}$
Storage Temperature Range	T_{S}	-55 to +150	$^\circ\text{C}$



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



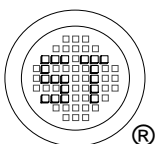
ISO 9001:2000
Certificate No. 0506098

Dated : 21/11/2003

ST 2SD882S-Q/P/E

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

		Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $V_{CE}=2V, I_C=1A$	Q	h_{FE}	100	-	200	-
	P	h_{FE}	160	-	320	-
	E	h_{FE}	250	-	500	-
at $V_{CE}=2V, I_C=20mA$		h_{FE}	30	-	-	-
Collector Cutoff Current at $V_{CB}=30V$		I_{CBO}	-	-	1	μA
Emitter Cutoff Current at $V_{EB}=3V$		I_{EBO}	-	-	1	μA
Collector to Base Breakdown Voltage at $I_C=100\mu A$		$V_{(BR)CBO}$	40	-	-	V
Collector to Emitter Breakdown Voltage at $I_C=1mA$		$V_{(BR)CEO}$	30	-	-	V
Emitter to Base Breakdown Voltage at $I_E=10\mu A$		$V_{(BR)EBO}$	5	-	-	V
Collector to Emitter Saturation Voltage at $I_C=2A, I_B=200mA$		$V_{CE(sat)}$	-	-	0.5	V
Base to Emitter Saturation Voltage at $I_C=2A, I_B=200mA$		$V_{BE(sat)}$	-	-	2	V
Transition Frequency at $V_{CE}=5V, I_C=0.1A, f=100MHz$		f_T	-	90	-	MHz
Collector Output Capacitance at $V_{CB}=10V, f=1MHz$		Cob	-	45	-	pF



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