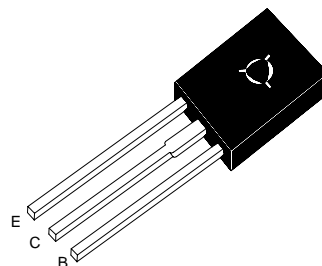


ST 2SB772

PNP SILICON EPITAXIAL POWER TRANSISTOR

These devices are intended for use in audio frequency power amplifier and low speed switching applications



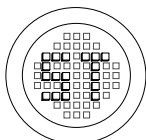
TO-126 Plastic Package

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

	Symbol	Value	Unit
Collector Base Voltage	$-V_{\text{CBO}}$	40	V
Collector Emitter Voltage	$-V_{\text{CEO}}$	30	V
Emitter Base Voltage	$-V_{\text{EBO}}$	5.0	V
Collector Current - DC	$-I_{\text{C}}$	3.0	A
Collector Current – Pulse (note)	$-I_{\text{C}}$	7	A
Base Current - DC	$-I_{\text{B}}$	0.6	A
Total Power Dissipation @ $T_{\text{C}}=25^{\circ}\text{C}$	P_{D}	10	W
Total Power Dissipation @ $T_{\text{A}}=25^{\circ}\text{C}$	P_{D}	1.0	W
Operating and Storage Junction Temperature Range	$T_{\text{J}}, T_{\text{s}}$	-65 to +150	$^{\circ}\text{C}$

Note: PW=10ms, Duty Cycle? 50%

G S P FORM A IS AVAILABLE



®

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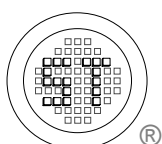
ST 2SB772

Characteristics at Ta=25 °C

	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain					
at $-V_{CE}=2V$, $-I_C=20mA$		30	-	-	-
at $-V_{CE}=2V$, $-I_C=1A$	R	60	-	120	-
	Q	100	-	200	-
	P	160	-	320	-
	E	200	-	400	-
Collector Emitter Breakdown Voltage					
at $-I_C=1mA$	$-V_{(BR)CEO}$	30	-	-	V
Collector Base Breakdown Voltage					
at $-I_C=1mA$	$-V_{(BR)CBO}$	40	-	-	V
Emitter Base Breakdown Voltage					
at $-I_E=1mA$	$-V_{(BR)EBO}$	5	-	-	V
Collector Cutoff Current					
at $-V_{CB}=30V$	$-I_{CBO}$	-	-	1.0	μA
Emitter Cutoff Current					
at $-V_{EB}=3V$	$-I_{EBO}$	-	-	1.0	μA
Collector Emitter Saturation Voltage					
at $-I_C=2A$, $-I_B=200mA$	$*-V_{CE(sat)}$	-	-	0.5	V
Base Emitter Saturation Voltage					
at $-I_C=10mA$, $-I_B=200mA$	$*-V_{BE(sat)}$	-	-	2.0	V
Output Capacitance					
at $-V_{CB}=10V$, $f=1MHz$	C_O	-	55	-	pF
Current Gain Bandwidth Product					
at $-I_C=100mA$, $-V_{CE}=5V$	f_T	-	80	-	MHz

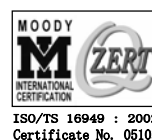
*Pulse Test: Pulse Width $\leq 350\mu s$, Duty Cycle $\leq 2\%$.

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SEMTECH ELECTRONICS LTD.

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



ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001
Certificate No. 7116



ISO 9001 : 2000
Certificate No. 552-199-02-002-004

Dated : 09/06/2005