BDW93C
BDW94B/BDW94C

COMPLEMENTARY SILICON POWER DARLINGTON TRANSISTORS

- STMicroelectronics PREFERRED SALESTYPES
- COMPLEMENTARY PNP - NPN DEVICES
- INTEGRATED ANTIPARALLEL COLLECTOR-EMITTER DIODE

APPLICATIONS

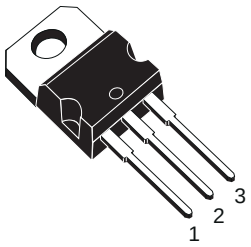
- LINEAR AND SWITCHING INDUSTRIAL EQUIPMENT

DESCRIPTION

The BDW93C is a silicon Epitaxial-Base NPN power transistor in monolithic Darlington configuration mounted in Jedec TO-220 plastic package. It is intented for use in power linear and switching applications.

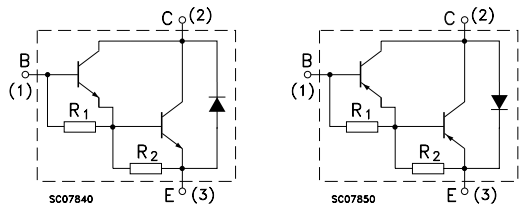
The complementary PNP type is BDW94C.

Also BDW94B is a PNP type.



TO-220

INTERNAL SCHEMATIC DIAGRAM



R_1 Typ. = 10 KΩ R_2 Typ. = 150 Ω

ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Value		Unit
	NPN		BDW93C	
	PNP	BDW94B	BDW94C	
V_{CBO}	Collector-Base Voltage (I_E = 0)	80	100	V
V_{CEO}	Collector-Emitter Voltage (I_B = 0)	80	100	V
I_C	Collector Current	12		A
I_{CM}	Collector Peak Current	15		A
I_B	Base Current	0.2		A
P_{tot}	Total Dissipation at $T_c \leq 25\ ^oC$	80		W
T_{stg}	Storage Temperature	-65 to 150		^oC
T_j	Max. Operating Junction Temperature	150		^oC

For PNP types voltage and current values are negative.