


DHA®

QJ/DHA 02.08-2001

D1071

NPN Power Darlington Transistor

Applications

Relay & ignition coil drivers

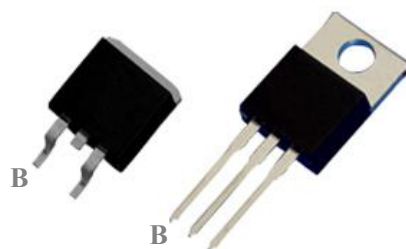
Motor control

Features

Including clamping zener & freewheeling diodes.

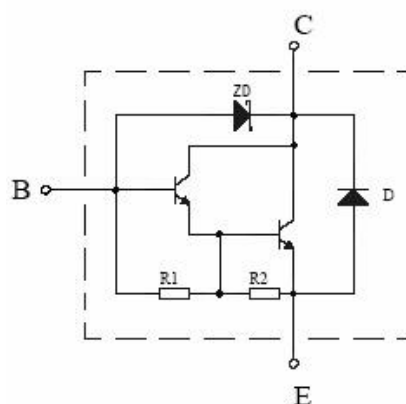
Absolute maximum ratings

Symbol	Ratings	Units
V_{CBO}	(450)	V
V_{CEO}	(450)	V
$V_{CEO(SUS)}$	300	V
V_{EBO}	6	V
V_Z	300	V
I_C	6	A
I_B	2.5	A
P_C (With heat sink)	40 $T_c=25^{\circ}C$	W
T_j	+150	$^{\circ}C$
T_{stg}	-40~+150	$^{\circ}C$



TO-263-2L

TO-220



Internal Equivalent Circuit

Electrical parameters ($T_{amb} = 25^{\circ}C$)

Symbol	Test conditions	Min	Max	Units
V_{CBO}	$I_{CBO}=100\mu A$	(450)		V
V_{CEO}	$I_{CEO}=1mA$	(450)		V
V_{EBO}	$I_{EBO}=150mA$	6		V
V_Z	$I_Z=100\mu A$	300	450	V
I_{CBO}	$V_{CBO}=300V$		0.1	mA
I_{EBO}	$V_{EBO}=6V$		150	mA
h_{FE}	$I_C=4A, V_{CE}=2V$	500		
$V_{CE(sat)}$	$I_C=4A, I_B=15mA$		1.5	V
$V_{BE(sat)}$			2.0	V
V_Z	$I_Z=10mA$	300	450	V