EN: This Datasheet/Document is presented by the manufacturer.

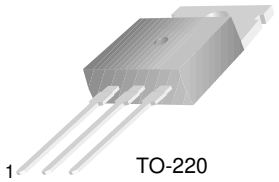
Please visit our website for pricing and availability at www.hestore.hu.

FAIRCHILD
SEMICONDUCTOR TM

BD240/A/B/C

Medium Power Linear and Switching Applications

- Complement to BD239/A/B/C respectively



TO-220

1.Base 2.Collector 3.Emitter

PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V_{CEO}	Collector-Base Voltage		
	: BD240	- 45	V
	: BD240A	- 60	V
	: BD240B	- 80	V
	: BD240C	- 100	V
V_{CER}	Collector-Emitter Voltage		
	: BD240	- 55	V
	: BD240A	- 70	V
	: BD240B	- 90	V
	: BD240C	- 115	V
V_{EBO}	Emitter-Base Voltage	- 5	V
I_C	Collector Current (DC)	- 2	A
I_{CP}	*Collector Current (Pulse)	- 4	A
I_B	Base Current	- 0.6	A
P_C	Collector Dissipation (T_C=25°C)	30	W
T_J	Junction Temperature	150	°C
T_{STG}	Storage Temperature	- 65 ~ 150	°C

Electrical Characteristics T_C=25°C unless otherwise noted

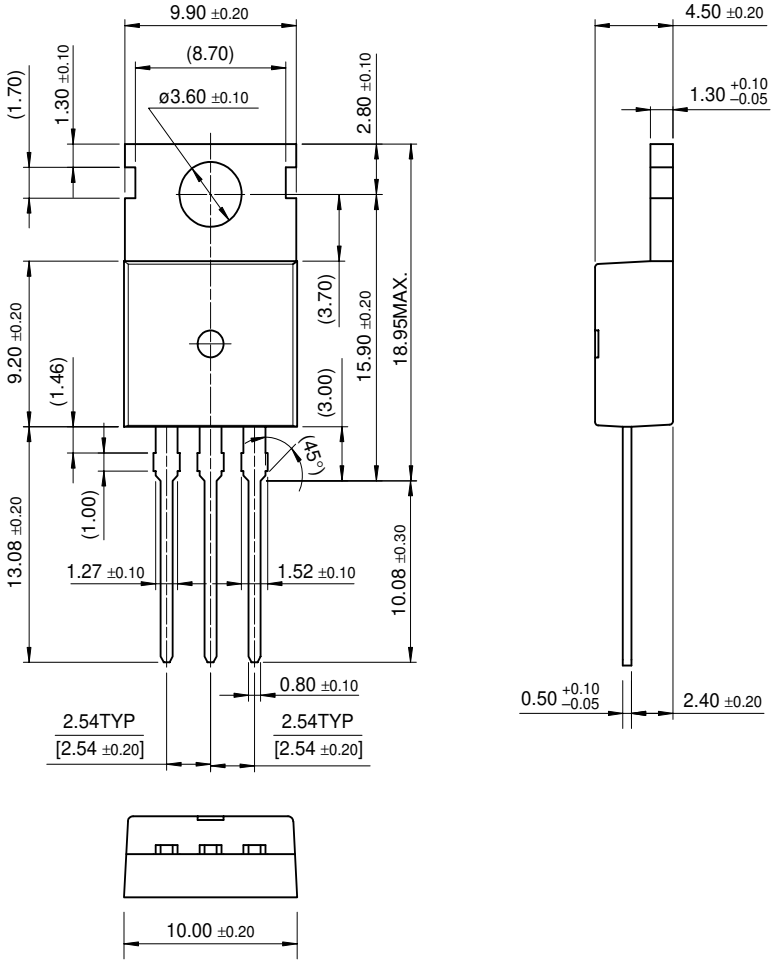
Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Units
V_{CEO}(sus)	* Collector-Emitter Sustaining Voltage					
	: BD240	I_C = - 30mA, I_B = 0	- 45			V
	: BD240A		- 60			V
	: BD240B		- 80			V
	: BD240C		- 100			V
I_{CEO}	Collector Cut-off Current : BD240/A	V_{CE} = - 30V, I_B = 0			- 0.3	mA
	: BD240B/C	V_{CE} = - 60V, I_B = 0			- 0.3	mA
I_{CES}	Collector Cut-off Current : BD240	V_{CE} = - 45V, V_{BE} = 0			- 0.2	mA
	: BD240A	V_{CE} = - 60V, V_{BE} = 0			- 0.2	mA
	: BD240B	V_{CE} = - 80V, V_{BE} = 0			- 0.2	mA
	: BD240C	V_{CE} = - 100V, V_{BE} = 0			- 0.2	mA
I_{EBO}	Emitter Cut-off Current	V_{EB} = - 5V, I_C = 0			- 1	mA
h_{FE}	* DC Current Gain	V_{CE} = - 4V,I_C = - 0.2A	40			
		V_{CE} = - 4V, I_C = - 1A	15			
V_{CE}(sat)	* Collector-Emitter Saturation Voltage	I_C = - 1A , I_B = - 0.2A			- 0.7	V
V_{BE}(on)	* Base-Emitter ON Voltage	V_{CE} = - 4V, I_C = - 1A			- 1.3	V

* Pulse Test: PW=350μs, duty Cycle≤2.0% Pulsed

©2000 Fairchild Semiconductor International

Package Demensions

TO-220



Dimensions in Millimeters

©2000 Fairchild Semiconductor International

TRADEMARKS

The following are registered and unregistered trademarks Fairchild Semiconductor owns or is authorized to use and is not intended to be an exhaustive list of all such trademarks.

ACEx™
Bottomless™
CoolFET™
CROSSVOLT™
E^2CMOS™
FACT™
FACT Quiet Series™
FAST®
FASTr™
GTO™
HiSeC™
ISOPLANAR™
MICROWIRE™
POP™
PowerTrench®
QFET™
QS™
Quiet Series™
SuperSOT™-3
SuperSOT™-6
SuperSOT™-8
SyncFET™
TinyLogic™
UHC™
VCX™

DISCLAIMER

FAIRCHILD SEMICONDUCTOR RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE TO ANY PRODUCTS HEREIN TO IMPROVE RELIABILITY, FUNCTION OR DESIGN. FAIRCHILD DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE APPLICATION OR USE OF ANY PRODUCT OR CIRCUIT DESCRIBED HEREIN; NEITHER DOES IT CONVEY ANY LICENSE UNDER ITS PATENT RIGHTS, NOR THE RIGHTS OF OTHERS.

LIFE SUPPORT POLICY

FAIRCHILD'S PRODUCTS ARE NOT AUTHORIZED FOR USE AS CRITICAL COMPONENTS IN LIFE SUPPORT DEVICES OR SYSTEMS WITHOUT THE EXPRESS WRITTEN APPROVAL OF FAIRCHILD SEMICONDUCTOR INTERNATIONAL.

As used herein:

1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, or (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in significant injury to the user.

2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
Advance Information	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
Preliminary	First Production	This datasheet contains preliminary data, and supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
Obsolete	Not In Production	This datasheet contains specifications on a product that has been discontinued by Fairchild semiconductor. The datasheet is printed for reference information only.

©2000 Fairchild Semiconductor International