

Silicon PNP Power Transistors

BD750/750A

DESCRIPTION

- Collector-Emitter Sustaining Voltage-
: $V_{CEO(SUS)} = -90V(\text{Min})$ - BD750
= $-120V(\text{Min})$ - BD750A
- High Power Dissipation
- Complement to Type BD751/751A

APPLICATIONS

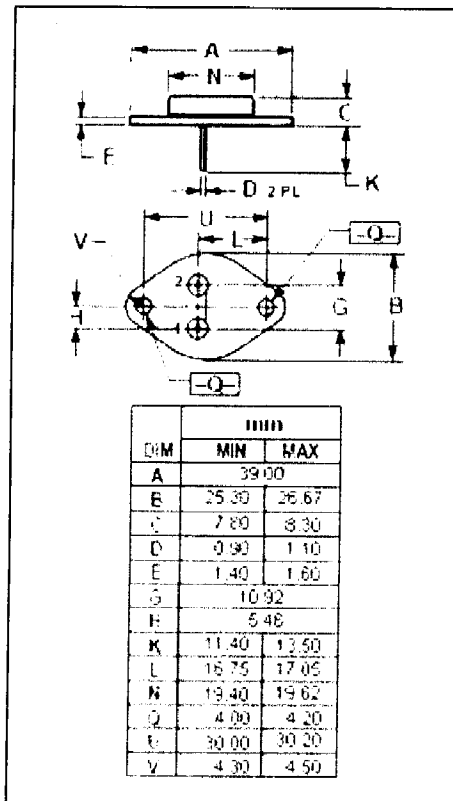
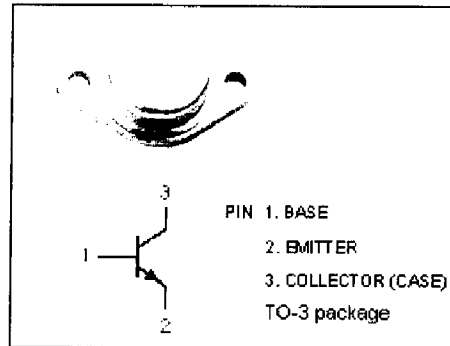
- Designed for high voltage and high power amplifier applications.

ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT	
V_{CEV}	Collector-Emitter Voltage	BD750	-100	V
		BD750A	-130	
$V_{CEO(SUS)}$	Collector-Emitter Voltage	BD750	-90	V
		BD750A	-120	
V_{EBO}	Emitter-Base Voltage	-7	V	
I_C	Collector Current-Continuous	-20	A	
I_B	Base Current-Continuous	-5	A	
P_C	Collector Power Dissipation@ $T_c=25^\circ\text{C}$	200	W	
T_J	Junction Temperature	200	$^\circ\text{C}$	
T_{stg}	Storage Temperature	-65~200	$^\circ\text{C}$	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th Jc}$	Thermal Resistance, Junction to Case	0.875	$^\circ\text{C/W}$



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Quality Semi-Conductors

Silicon PNP Power Transistors

BD750/750A

ELECTRICAL CHARACTERISTICS

$T_C=25^\circ\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CEQ(SUS)}$	Collector-Emitter Sustaining Voltage	BD750	$I_C = -100\text{mA}; I_B = 0$			V
		BD750A				
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	BD750	$I_C = -7.5\text{A}; I_B = -0.75\text{A}$			V
		BD750A				
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	BD750	$I_C = -7.5\text{A}; I_B = -0.75\text{A}$			V
		BD750A				
I_{CEV}	Collector Cutoff Current	BD750	$V_{CEV} = -100\text{V}; V_{BE(off)} = -1.5\text{V}$			mA
		BD750A				
I_{EBO}	Emitter Cutoff Current	$V_{EB} = -7\text{V}; I_C = 0$			-1.0	mA
h_{FE}	DC Current Gain	BD750	$I_C = -7.5\text{A}; V_{CE} = -2\text{V}$			
		BD750A				
f_T	Current-Gain—Bandwidth Product	$I_C = -0.5\text{A}; V_{CE} = -10\text{V}; f_{test} = 1\text{MHz}$	4			MHz