

isc Silicon PNP Power Transistors

BD750B/750C

DESCRIPTION

- · Collector-Emitter Sustaining Voltage-
 - : $V_{CEO(SUS)}$ = -100V(Min)- BD751B
 - = -130V(Min)- BD751C
- High Power Dissipation
- Complement to Type BD751B/751C
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS



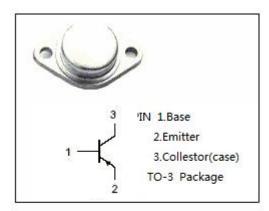
 Designed for high voltage and high power amplifier applications.

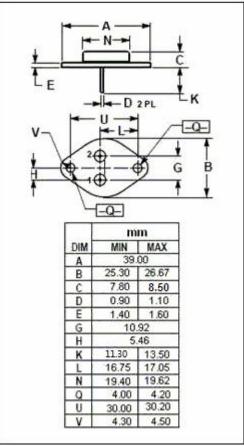
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT		
Vcev	Collector-Emitter Voltage	BD750B	-110	V	
		BD750C	-140		
V _{CEO(SUS)}	Collector-Emitter Voltage	BD750B	-100	V	
		BD750C	-130		
V _{EBO}	Emitter-Base Voltage	-7	V		
Ic	Collector Current-Continuou	-20	Α		
I _B	Base Current-Continuous	-5	Α		
Pc	Collector Power Dissipation	250	W		
TJ	Junction Temperature	200	$^{\circ}$		
T _{stg}	Storage Temperature	-65~200	$^{\circ}$		

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT	
R _{th j-c}	Thermal Resistance, Junction to Case	0.875	°C/W	







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER		CONDITIONS	MIN	TYP.	MAX	UNIT
Vceo(sus)	Collector-Emitter Sustaining Voltage	BD750B	Ic= -30mA ; I _B = 0	-100			V
		BD750C		-130			
V _{CE(sat)}	Collector-Emitter Saturation Voltage	BD750B	I _C = -7.5A; I _B = -0.75A			-1.5	V
		BD750C	I _C = -5A; I _B = -0.5A			-1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	BD750B	I _C = -7.5A; I _B = -0.75A			-1.8	V
		BD750C	I _C = -5A; I _B = -0.5A			-1.8] V
Icev	Collector Cutoff Current	BD750B	V _{CEV} = -110V;V _{BE(off)} = -1.5V			-0.5	mA
		BD750C	V _{CEV} = -140V;V _{BE(off)} = -1.5V			-0.5	IIIA
ІЕВО	Emitter Cutoff Current		V _{EB} = -7V; I _C =0			-1.0	mA
hfE	DC Current Gain	BD750B	I _C = -7.5A ; V _{CE} = -2V	15		60	
		BD750C	I _C = -5A ; V _{CE} = -2V	25		100	

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