

isc Silicon PNP Power Transistors

BD750/750A

DESCRIPTION

- · Collector-Emitter Sustaining Voltage-
 - : $V_{CEO(SUS)} = -90V(Min)$ BD750
 - = -120V(Min)- BD750A
- · High Power Dissipation
- Complement to Type BD751/751A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

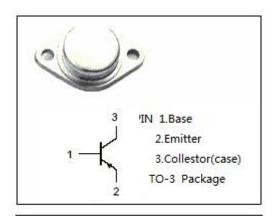
 Designed for high voltage and high power amplifier applications.

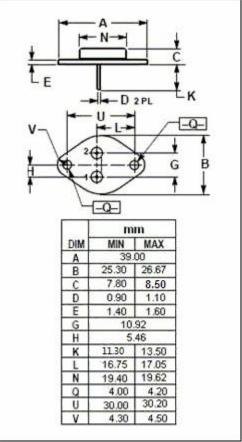
ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

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	-7	V	
Ic	Collector Current-Continuou	-20	Α		
I _B	Base Current-Continuous	-5	Α		
Pc	Collector Power Dissipation	200	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	BD750	I _C = -30mA ; I _B = 0	-90			V
		BD750A		-120			
V _{CE(sat)}	Collector-Emitter Saturation Voltage	BD750	I _C = -7.5A; I _B = -0.75A			-1.5	V
		BD750A	I _C = -5A; I _B = -0.5A			-1.0	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	BD750	I _C = -7.5A; I _B = -0.75A			-1.8	V
		BD750A	I _C = -5A; I _B = -0.5A			-1.8	V
Icev	Collector Cutoff Current	BD750	V _{CEV} = -100V;V _{BE(off)} = -1.5V			-0.5	A
		BD750A	V _{CEV} = -130V;V _{BE(off)} = -1.5V			-0.5	mA
I _{EBO}	Emitter Cutoff Current		V _{EB} = -7V; I _C =0			-1.0	mA
h _{FE}	DC Current Gain	BD750	I _C = -7.5A; V _{CE} = -2V	15		60	
		BD750A	Ic= -5A ; VcE= -2V	25		100	
fτ	Current-Gain—Bandwidth Product		I _C = -0.5A ;V _{CE} = -10V; f _{test} = 1MHz	4			MHz

NOTICE:

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