

isc Silicon NPN Power Transistor

BDX73

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
 - : $V_{(BR)CEO} = 80V(Min)$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

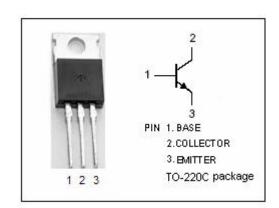
• Designed for use in power linear and switching applications

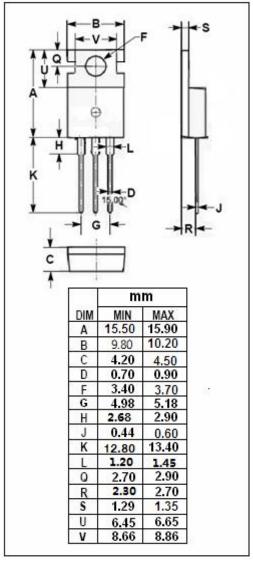


SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	80	V
V _{CEO}	Collector-Emitter Voltage	80	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current-Continuous	10	Α
l _Β	Base Current	5	Α
Pc	Collector Power Dissipation @ T _C =25°C 75		W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.67	°C/W
R _{th j-a}	Thermal Resistance, Junction to Ambient	70	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 30mA ;I _B = 0	80		V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1mA ;I _E = 0	80		V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA ;I _C = 0	8		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 4A; I _B = 0.4A		1.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 4A ; V _{CE} = 2V		2.5	V
ICEO	Collector Cutoff Current	V _{CE} = 80V; I _B = 0		0.1	mA
I _{CBO}	Collector Cutoff Current	V _{CB} = 80V;I _E = 0		0.01	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 8V; I _C =0		0.5	mA
h _{FE} 1	DC Current Gain	Ic= 2A ; VcE= 2V	20	80	
h _{FE} 2	DC Current Gain	I _C = 4A ; V _{CE} = 4V	15		
h _{FE} 3	DC Current Gain	I _C = 10A; V _{CE} = 4V	5		

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