

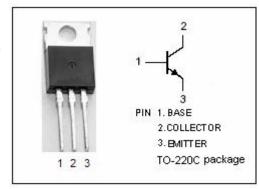
isc Silicon NPN Power Transistors

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 100V(Min)
- · Fast Switching Speeds
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

 Designed for general purpose power amplification and switching such as output or driver stages in applications such as switching regulators, converters and power amplifier.

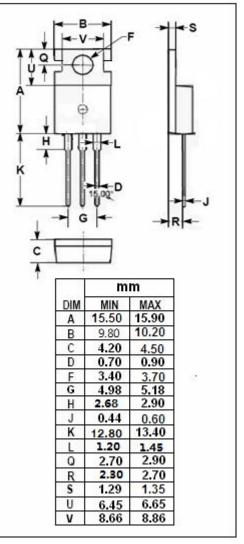


ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CEO}	Collector-Emitter Voltage	100	V
V _{СВО}	Collector-Base Voltage	200	V
V _{EBO}	V _{EBO} Emitter-Base Voltage		V
Ic	Collector Current-Continuous	1.5	А
Pc	Collector Power Dissipation @Tc=25℃	65	W
T _j	Junction Temperature	-55~150	℃
T _{stg}	T _{stg} Storage Temperature Range		$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.92	°C/W



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DS15

ELECTRICAL CHARACTERISTICS

 T_c =25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; I _B = 0	100			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1mA; I _E = 0	200			V
V _{CE(sat)}	Collector-EmitterSaturation Voltage	I _C = 0.2A ;I _B = 0.02A			1	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C =0.2A ;I _B = 0.02 A			1.5	V
Ісво	Collector Cutoff Current	V _{CB} =50 , I _E = 0			0.1	mA
I _{CEO}	Emitter Cutoff Current	V _{CE} = 50V; I _C = 0			0.5	mA
h _{FE-1}	DC Current Gain	I _C =0.1A; V _{CE} =10V	35		320	

NOTICE:

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