

isc Silicon PNP Darlington Power Transistor

DESCRIPTION

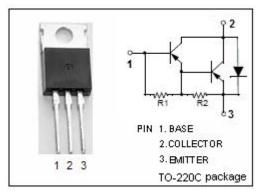
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= -80V(Min)
- · High DC Current Gain-
 - : h_{FE}= 1000(Min)@I_C= -5A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

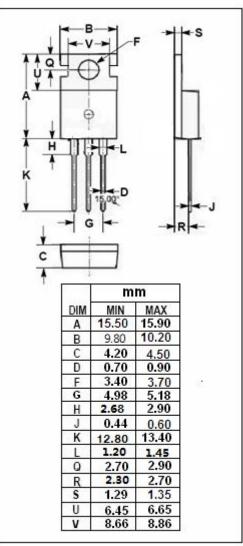
APPLICATIONS

• Driver for chopper regulator, DC motor driver and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

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
lc	Collector Current-Continuous	-10	Α
I _{CP}	Collector Current-Pulse	-15	Α
Pc	Collector Power Dissipation @ T _C =25℃	40	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$







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2SB1550

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -10mA; I _B = 0	-80			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -5A; I _B = -5mA			-1.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -5A; I _B = -5mA			-2.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -80V; I _E =0			-10	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C =0			-3	mA
h _{FE}	DC Current Gain	I _C = -5A; V _{CE} = -3V	1000		20000	
Сов	Output Capacitance	I _E =0; V _{CB} = -10V; f _{test} = 1.0MHz		90		pF
f _T	Current-Gain—Bandwidth Product	I _E = -0.5A; V _{CE} = -5V		12		MHz

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