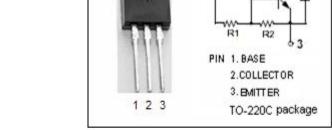


isc Silicon NPN Darlington Power Transistor

2SD1195

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 100V(Min)
- · High DC Current Gain
 - : h_{FE}= 1500(Min) @I_C= 2.5A
- Low Saturation Voltage
- Complement to Type 2SB885
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

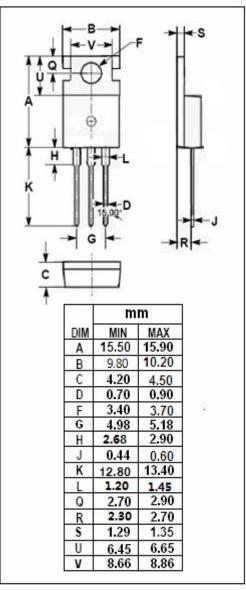


APPLICATIONS

• Designed for motor drivers, printer hammer drivers, relay drivers, voltage regulator applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	110	V	
V _{CEO}	Collector-Emitter Voltage	100	٧	
V _{EBO}	Emitter-Base Voltage	6	٧	
Ic	Collector Current-Continuous	5	Α	
I _{CP}	Collector Current-Peak	8	Α	
Pc	Collector Power Dissipation @ T _a =25℃	1.75	W	
	Collector Power Dissipation @ Tc=25℃	35		
TJ	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	





isc Silicon NPN Darlington Power Transistor

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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT		
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 30mA; R _{BE} = ∞	100			V		
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 3mA; I _E = 0	110			V		
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 2.5A; I _B = 5mA			1.5	V		
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 2.5A; I _B = 5mA			2.0	V		
I _{CBO}	Collector Cutoff Current	V _{CB} = 80V; I _E = 0			100	μА		
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			3.0	mA		
h _{FE}	DC Current Gain	I _C = 2.5A; V _{CE} = 3V	1500					
f⊤	Current-Gain—Bandwidth Product	I _C = 2.5A; V _{CE} = 5V		20		MHz		
Switching times								
ton	Turn-on Time			0.6		μ S		
t _{stg}	Storage Time			4.8		μ S		
tf	Fall Time	P _w = 50 μ s; Duty Cycle≤1%		1.6		μS		

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