

isc Silicon NPN Darlington Power Transistor

2SD1197

DESCRIPTION

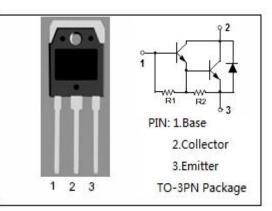
- Collector-Emitter Breakdown Voltage-: V_{(BR)CEO}= 100V(Min)
- High DC Current Gain
- : h_{FE}= 1500(Min) @I_C= 5A
- Low Saturation Voltage
- Complement to Type 2SB887
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

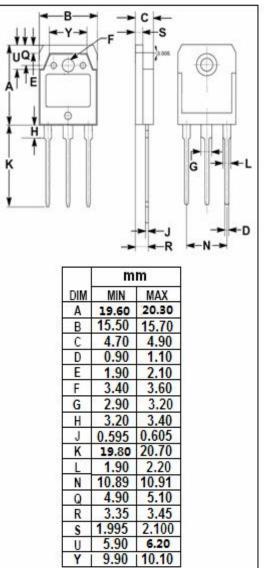
APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	110	V	
V _{CEO}	Collector-Emitter Voltage	100	V	
V _{EBO}	Emitter-Base Voltage	6	V	
lc	Collector Current-Continuous	10	А	
I _{CP}	Collector Current-Peak	15	A	
Pc	Collector Power Dissipation @ T _c =25°C	70	W	
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-55~150	°C	





isc website: www.iscsemi.com



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ELECTRICAL CHARACTERISTICS

$T_{\text{C}}\text{=}25\,^\circ\!\!\!\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 30mA; R _{BE} = ∞	100			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 0.1mA; I _E = 0	110			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5Α; I _B = 10mΑ			1.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 5Α; I _B = 10mΑ			2.0	V
Ісво	Collector Cutoff Current	V _{CB} = 80V; I _E = 0			100	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			3.0	mA
h _{FE}	DC Current Gain	I _C = 5A; V _{CE} = 3V	1500			
f⊤	Current-Gain—Bandwidth Product	Ic= 5A; Vce= 5V		20		MHz

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