

isc Silicon NPN Darlington Power Transistor

2SD920

DESCRIPTION

- · High DC Current Gain
- : h_{FE}= 700(Min.)@ I_C= 1A, V_{CE}= 4V
- · High Collector-Emitter Breakdown Voltage-
 - $: V_{(BR)CEO} = 200V(Min)$
- · Low Collector Saturation Voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

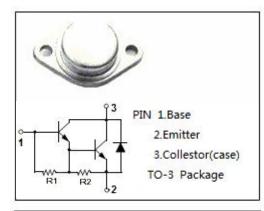


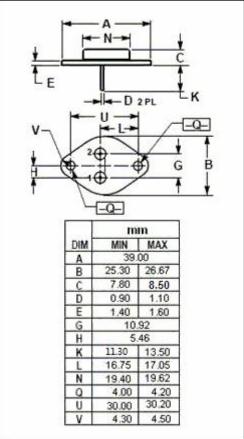
APPLICATIONS

 Designed for series regulators ,color TV, power supplies and similar devices applications.

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	200	V
V_{CEO}	Collector-Emitter Voltage	200	V
V_{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current-Continuous	5	Α
I _{CM}	Collector Current-Peak	8	Α
Pc	Collector Power Dissipation @T _C =25°C	100	W
Tj	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range -55~150		$^{\circ}$







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 30mA, I _B = 0	200			V
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = 3A ,I _B = 12mA			2.0	V
V _{CE(sat)-2}	Collector-Emitter Saturation voltage	Ic= 5A ,I _B = 20mA			4.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 3.0A; V _{CE} = 3V			2.5	V
I _{CBO}	Collector Cutoff current	V _{CB} = 200V, I _E = 0			0.1	mA
Iceo	Collector Cutoff Current	V _{CE} = 200V, I _B = 0			0.5	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			5	mA
h _{FE}	DC Current Gain	I _C = 1A; V _{CE} = 4V	700		20000	

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