

isc Silicon NPN Darlington Power Transistor

2SD679

DESCRIPTION

- Collector-Emitter Sustaining Voltage-V_{CEO(SUS)}= 70V(Min)
- · Low Collector-Emitter Saturation Voltage-
 - : V_{CE(sat)}= 2.0V(Max.)@ I_C= 3A
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

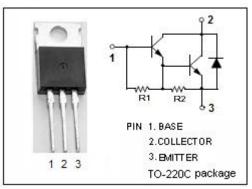


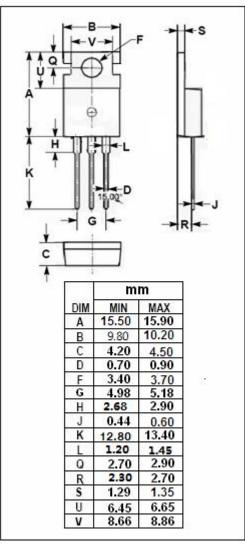
APPLICATIONS

 Designed for general purpose amplifier and low speed switching applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	70	V
Vceo	Collector-Emitter Voltage	70	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current-Continuous	4	Α
Ісм	Collector Current-Peak	6	Α
I_{B}	Base Current-Continuous	50	mA
Pc	Collector Power Dissipation @ T _C =25 °C	40	W
T_J	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 30mA, I _B = 0	70			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 3A, I _B = 12mA			2.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 3A; V _{CE} = 3V			2.2	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 70V, I _E = 0			0.1	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = 70V, I _B = 0			0.5	mA
ІЕВО	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			2.0	mA
h _{FE-1}	DC Current Gain	I _C = 1A; V _{CE} = 3V	1000			
h _{FE-2}	DC Current Gain	I _C = 3A; V _{CE} = 3V	500			

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