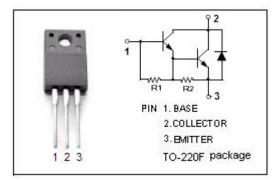


isc Silicon NPN Darlington Power Transistor

DESCRIPTION

- · High DC Current Gain-
 - : $h_{FE} = 2000(Min)@I_{C} = 6A$
- · Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)} = 100V(Min)
- · Low Collector-Emitter Saturation Voltage-
- : V_{CE(sat)} =1.5V(Max)@ I_C= 6A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

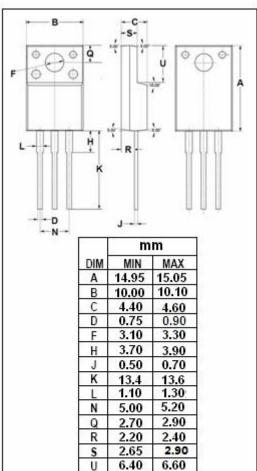


APPLICATIONS

 Designed for general purpose amplifier and low speed switching applications.

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	200	V
V _{CEO}	Collector-Emitter Voltage	150	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current-Continuous	8	Α
I _B	Base Current	1	Α
Pc	Collector Power Dissipation T _C =25℃	35	10/
	Collector Power Dissipation T _a =25℃	2	W
T _j	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-65~150	°C





isc Silicon NPN Darlington Power Transistor

2SD2633

ELECTRICAL CHARACTERISTICS

Tc=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA, I _B = 0	150			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	Ic= 6A ,I _B = 6mA			1.5	V
V _{BE(sat)}	Base-Emitter Saturation voltage	I _C = 6A ,I _B = 6mA			2.0	V
Ісво	Collector Cutoff Current	V _{CB} = 200V, I _E = 0			0.1	mA
ІЕВО	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0			10	mA
h _{FE}	DC Current Gain	I _C = 6A; V _{CE} = 2V	2000			



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