

isc Silicon NPN Darlington Power Transistor

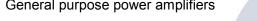
2SD1128

DESCRIPTION

- Excellent linearity in hFE
- · High DC Current Gain
- · High Reliability
- Excellent Safe Operating Area
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Color & B/W TV power
- · supply Active power filter
- Industrial use power supply (series regulator)
- · General purpose power amplifiers

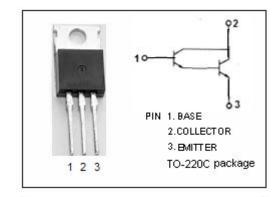


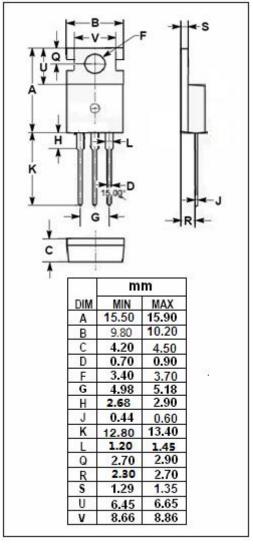
ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	150	V
Vceo	Collector-Emitter Voltage	100	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current-Continuous	5	Α
I _B	Base Current-Continuous	0.5	А
Pc	Collector Power Dissipation @ Tc=25°C	30	W
TJ	Junction Temperature 150		$^{\circ}$ C
T _{stg}	Storage Temperature Range -55~150		$^{\circ}$ C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth j-c	Thermal Resistance,Junction to Case	4.1	°C/W







isc Silicon NPN Darlington Power Transistor

2SD1128

ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CBO}	Collector- Base Breakdown Voltage	I _C = 1mA ; I _E = 0	150			V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA ; I _B = 0	100			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	6			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 1.5A; I _B = 50mA			1.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 1.5A; I _B = 50mA			2.0	V
Ісво	Collector Cutoff Current	V _{CB} = 150V; I _E = 0			1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} =6V; I _C =0			1	mA
h _{FE}	DC Current Gain	I _C = 1A; V _{CE} = 4V	700			

NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.