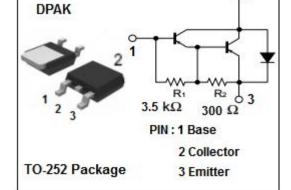
02



isc Silicon PNP Power Transistor

DESCRIPTION

- · Darlington connection for high DC current gain
- · Built in resistor between base and emitter
- · Built in damper diode
- Complementary NPN types:2SD1980
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

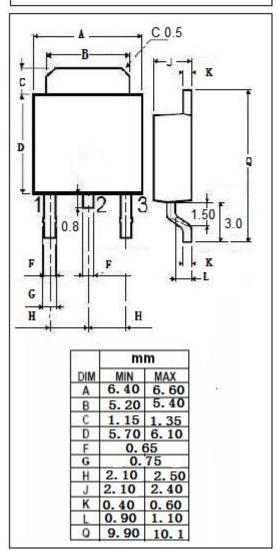


APPLICATIONS

Motor drivers,LED driver,Power supply

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-100	V
V _{CEO}	Collector-Emitter Voltage	-100	V
V _{EBO}	Emitter-Base Voltage	-8	V
Ic	Collector Current-Continuous	-2.0	А
Ісм	Collector Current-Peak	-3.0	А
Pc	Collector Power Dissipation @ T _C =25°C	10	W
TJ	Junction Temperature 150		$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$ C





isc Silicon PNP Power Transistor

2SB1316

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNI T
BV_CBO	Collector-Base breakdown voltage	I _C =-50uA	-100			V
BV _{CEO}	Collector-Emitter breakdown voltage	I _C =-5mA	-100			V
BV _{EBO}	Emitter-Base breakdown voltage	I _E =-3mA	-10			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -1A; I _B = -1mA			-1.5	V
Ісво	Collector Cutoff Current	V _{CB} = -100V; I _E = 0			-10	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = -7V; I _C = 0			-3.0	mA
h _{FE}	DC Current Gain	I _C = -1A; V _{CE} = -2V	1000		10000	
Сов	Output Capacitance	I _E = 0; V _{CB} = -10V; f= 1.0MHz		35		pF
f⊤	Current-Gain—Bandwidth Product	I _C = -0.1A; V _{CE} = -5V,f= 100MHz		50		MHz

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.