

isc Silicon NPN Power Transistor

2SC3252

DESCRIPTION

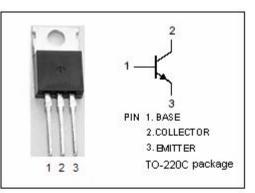
- Low Collector Saturation Voltage
- Good Linearity of h_{FE}
- High Switching Speed
- Complement to Type 2SA1288
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

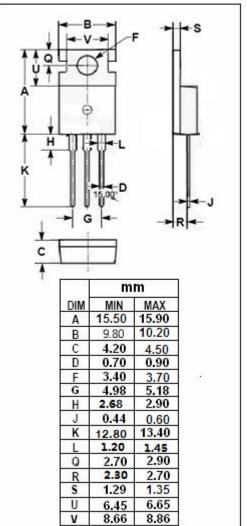
APPLICATIONS

- · Various inductance lamp drivers for electrical equipment
- Inverters, converters
- Power amplifier
- Switching regulator, dirver

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	80	V
V _{CEO}	Collector-Emitter Voltage	60	V
V _{EBO}	Emitter-Base Voltage	6	V
lc	Collector Current-Continuous	3	А
I _{CM}	Collector Current-Pulse	5	А
Pc	Collector Power Dissipation @ T_c =25°C	30	W
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C







isc Silicon NPN Power Transistor

2SC3252

ELECTRICAL CHARACTERISTICS

$T_{\text{c}}\text{=}25^{\circ}\!\!\!^{\circ}\!\!^{\circ}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 1mA; R _{BE} = ∞	60			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1mA; I _E = 0	80			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 1.5A; I _B = 75mA			0.4	V
Ісво	Collector Cutoff Current	V _{CB} = 40V; I _E = 0			100	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V; I _C = 0			100	μA
h _{FE}	DC Current Gain	I _C = 1A; V _{CE} = 2V	70		280	
f _T	Current-Gain—Bandwidth Product	I _C =1A; V _{CE} = 5V		100		MHz

• h_{FE} Classifications

Q	R	S	
70-140	100-200	140-280	

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.