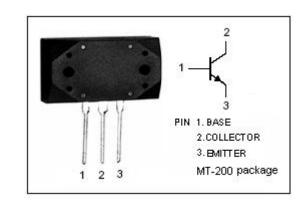


isc Silicon NPN Power Transistor

DESCRIPTION

- High Collector-Emitter Breakdown Voltage-V_{(BR)CEO}= 160V(Min)
- · Good Linearity of hFE
- Complement to Type 2SA1095
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

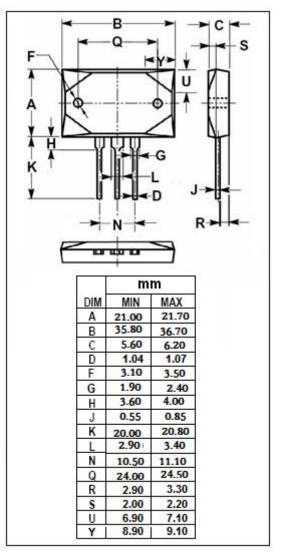


APPLICATIONS

• Designed for general purpose applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	160	V
V _{CEO}	Collector-Emitter Voltage	160	V
V _{EBO}	Emitter-Base Voltage	5	V
lc	Collector Current-Continuous	15	А
I _B	Base Current-Continuous	1.5	А
Pc	P _C Collector Power Dissipation @ T _C =25°C		W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}\!$





ISC Silicon NPN Power Transistor

2SC2565

ELECTRICAL CHARACTERISTICS

 T_{C} =25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 50mA ; I _B = 0	160			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 0.5A			2.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 160V; I _E = 0			5	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C =0			5	μА
h _{FE 1}	DC Current Gain	I _C = 1A; V _{CE} = 5V	55		240	
h _{FE 2}	DC Current Gain	I _C = 5A; V _{CE} = 5V	40			
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V;f _{test} = 1.0MHz		200		pF
f _T	Current-Gain—Bandwidth Product	I _E = 1A; V _{CE} = 10V	25			MHz

h_{FE} 1 Classifications

K	0	Y
55-110	80-160	120-240

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.

isc website: www.iscsemi.com

isc & iscsemi is registered trademark