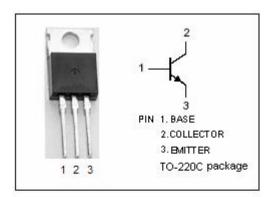


isc Silicon NPN Power Transistor

2SC2238B

DESCRIPTION

- Collector-Emitter Breakdown Voltage
 - : V_{(BR)CEO}=200V
- · Good Linearity of hFE
- Complement to Type 2SA968B
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

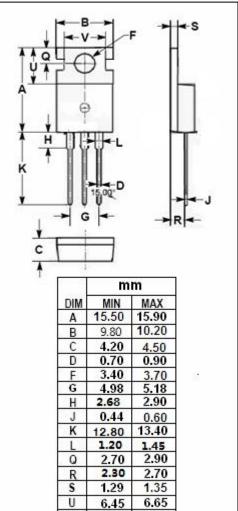




- Power amplifier applications
- Driver stage amplifier applications



SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	200	V	
Vceo	Collector-Emitter Voltage 200			
V _{EBO}	Emitter-Base Voltage	5	V	
Ic	Collector Current-Continuous	or Current-Continuous 1.5		
Pc	Total Power Dissipation @ T _C =25 °C 25		W	
TJ	Junction Temperature 15		$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	





isc Silicon NPN Power Transistor

2SC2238B

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT	
V _(BR) CEO	Collector-Emitter Breakdown Voltage	I _C =10mA ; I _B = 0	200			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 = 0.5A; I _B = 50mA			1.5	V	
V _{BE(on)}	Base-Emitter On Voltage	I _C =0.5A ; V _{CE} = 5V			1.0	V	
I _{CBO}	Collector Cutoff Current	V _{CB} = 180V ; I _E = 0			1.0	μА	
I _{EBO}	Emitter Cutoff Current	V _{EB} =5V; I _C = 0			1.0	μА	
h _{FE}	DC Current Gain	I _C =0.1A; V _{CE} =5V	70		240		
Сов	Output Capacitance	I _E = 0; V _{CB} =10V; f _{test} = 1MHz		25		pF	
f⊤	Current-Gain—Bandwidth Product	I _C =0.1A;V _{CE} =10V		100		MHz	

h_{FE} Classifications

0	Y		
70-140	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.

2