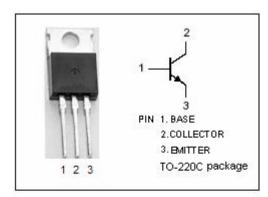


isc Silicon NPN Power Transistor

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

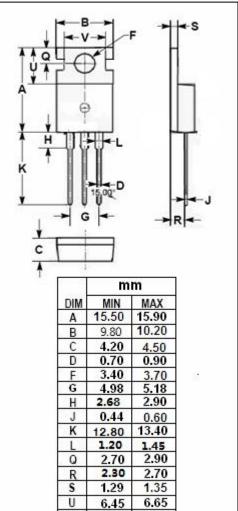




- Power amplifier applications
- Driver stage amplifier applications



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 1.5		А	
Pc	Total Power Dissipation @ T _C =25℃ 25		W	
TJ	Junction Temperature 150		$^{\circ}$	
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:

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