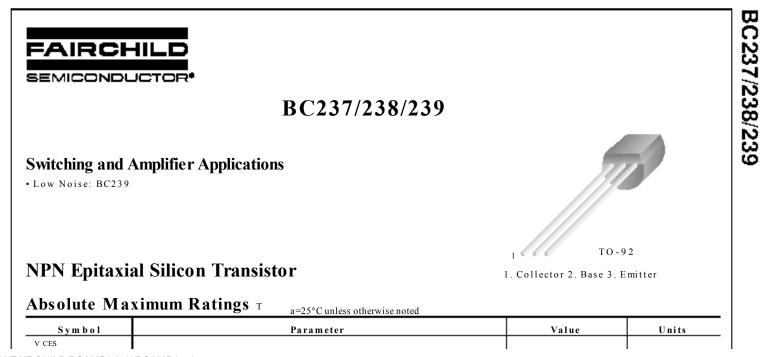


1 page



BC238B datasheet(1/4 Pages) FAIRCHILD | NPN EPITAXIAL SILICON TRANSISTOR

	Collector-Emitter Voltage	: BC237 : BC238/239	58	¥
V CEO	Collector-Emitter Voltage	: BC237 : BC238/239	45 25	V
V EBO	Emitter-Base Voltage	: BC237 : BC238/239	6 5	V V
Ic	Collector Current (DC)		1 0 0	mA
Pc	Collector Power Dissipation		5 0 0	mW
TJ	Junction Temperature		1 5 0	° C
T STG	Storage Temperature		-55 ~ 150	° C

Electrical Characteristics T

2 5 0 0			
a=25°(unless	otherwise	noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Unit
B V CEO	Collector-Emitter Breakdown Voltage					
	: BC237	IC=2mA, IB=0	45			V
	: BC238/239		25			V
B V EBO	Emitter Base Breakdown Voltage					
	: BC237	1E=1 μA, IC=0	6			V
	: BC238/239		5			V
I CES	Collector Cut-off Current					
	: BC237	VCE=50V, VBE=0		0.2	15	nA
	: BC238/239	VCE=30V, VBE=0		0.2	15	nA
h fE	DC Current Gain	VCE=5V, IC=2mA	1 2 0		8 0 0	
VCE (sat)	Collector-Emitter Saturation Voltage	IC=10mA, IB=0.5mA		0.07	0.2	V
		Ic=100mA, Ib=5mA		0.2	0.6	V
VBE (sat)	Collector-Base Saturation Voltage	IC=10mA, IB=0.5mA		0.73	0.83	V
		Ic=100mA, IB=5mA		0.87	1.05	V
VBE (on)	Base-Emitter On Voltage	VCE=5V, IC=2mA	0.55	0.62	0.7	V
fr	Current Gain Bandwidth Product	VCE=3V, IC=0.5mA, f=100MHz		85		MHz
		VCE=5V, IC=10mA, f=100MHz	1 5 0	2 5 0		MHz
C ob	Output Capacitance	Vcb=10V, IE=0, f=1MHz		3.5	6	pF
C ib	Input Base Capacitance	Veb=0.5V, Ic=0, f=1 MHz		8		pF
NF	Noise Figure	VCE=5V, IC=0.2mA,				
	: BC237/238	f=1 K H z R G=2KΩ		2 1	0	dB
	: BC239	VCE=5V, IC=0.2mA			4	dB
	: BC239	R _G =2KΩ, £30~15KHz	1		4	dB

hFE Classification

Classification	A	В	С
h fe	120 ~ 220	180 ~ 460	380 ~ 800



Html Pages

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Datasheet Download

PDF DATASHEET

Related Electronics Part Number

Part Number	Components Description	Html View	Manufacturer
2SC6015	NPN Epitaxial Planar Silicon Transistor DC / DC Converter Applications	1 2 3 4	Sanyo Semicon Device
2SC1927	NPN SILICON EPITAXIAL DUAL TRANSISTOR FOR DIFFERENTIAL AMPLIFIER AND ULTRA HIGH SPEED SWITCHING INDUSTRIAL USE	1 2 3 4	NEC
2SC3583	MICROWAVE LOW NOISE AMPLIFIER NPN SILICON EPITAXIAL TRANSISTOR	1 2 3 4 5 More	NEC
2SC4092	HIGH FREQUENCY LOW NOISE AMPLIFIER NPN SILICON EPITAXIAL TRANSISTOR 4 PINS MINI MOLD	1 2 3 4 5 More	NEC

MINI MOLD

Link URL

http://html.alldatasheet.com/html-pdf/50729/FAIRCHILD/BC238B/405/1/BC238B.html

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