

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 2SC4215-R 2SC4215-O 2SC4215-Y

Features

- Small reverse transfer capacitance: Cre= 0.55pF(typ.)
- Low Voise figure: NF=2dB (typ.) (f=100 MHz)
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	30	V
V_{CBO}	Collector-Base Voltage	40	V
V_{EBO}	Emitter-Base Voltage	4	V
I _C	Collector Current	20	mA
Pc	Collector power dissipation	100	mW
$T_{J,} T_{STG}$	Junction and Storage Temperature	-55 to +150	$^{\circ}\mathbb{C}$

Electrical Characteristics @ 25° C Unless Otherwise Specified

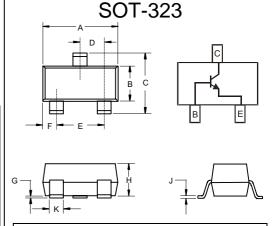
Symbol	Parameter	Min	Тур	Max	Units
V _{(BR)CBO}	Collector -base breakdown voltage $(I_C=100\mu A,I_E=0)$	40			V
V _{(BR)CEO}	Collector-emitter breakdown voltage $(I_C=1 \text{mA}, I_B=0)$	30			V
$V_{(BR)EBO}$	Emitter-base breakdown voltage $(I_E=100\mu A,\ I_c=0)$	4			V
І _{сво}	Collector cut-off current (V _{CB} =40V,I _E =0)			0.1	μΑ
I _{EBO}	Emitter cut-off current $(V_{EB}=4V, I_c=0)$			0.5	μΑ
h _{FE}	DC Current Gain (V _{CE} =6V,I _C =1mA)	40		200	
C _{C rbb}	Collector-base time constant (V _{CE} =6V, I _C =1mA,f=30MHz)			25	ps
C _{re}	Reverse transfer capacitance (V _{CB} =10V, f=1.0MHz)		0.55		pF
f⊤	Transition frequency (V _{CE} =6V, Ic=1mA,)	260	550		MHz

he classification

Rank	R	0	Υ
Ramge	40~80	70~140	100~200
Marking	QR	QO	QY

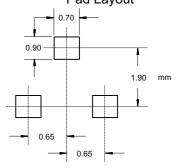
NPN Silicon Epitaxial Transistors





DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.071	.087	1.80	2.20	
В	.045	.053	1.15	1.35	
O	.079	.087	2.00	2.20	
D	.026 Nominal		0.65Nominal		
Е	.047	.055	1.20	1.40	
F	.012	.016	.30	.40	
Ð	.000	.004	.000	.100	
I	.035	.039	.90	1.00	
J	.004	.010	.100	.250	
K	.012	.016	.30	.40	

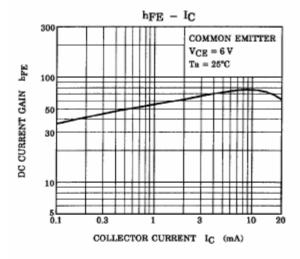
Suggested Solder Pad Layout

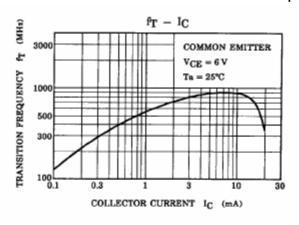


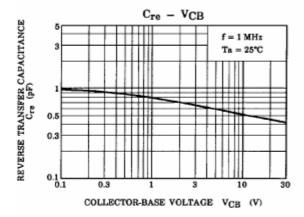


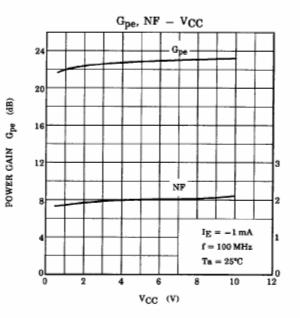
2SC4215

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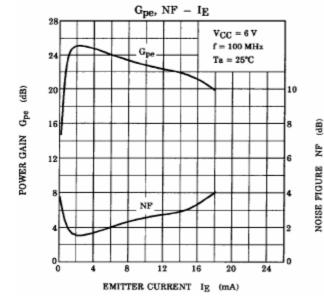


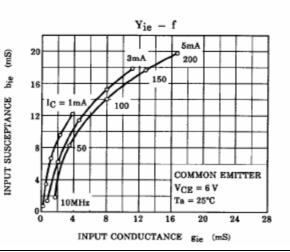




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NOISE FIGURE NF







Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel 3Kpcs/Reel

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