

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 (818) 701-4939 2SC4116-O 2SC4116-Y 2SC4116-GR 2SC4116-BL

Features

- 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
- High voltage and high current
- Complementary to 2SA1586
- Halogen_free available upon request by adding suffix "-HF"

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	60	V
V_{CBO}	Collector-Base Voltage	50	V
V_{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current	150	mA
Pc	Collector power dissipation	100	mW
T_J	Junction Temperature	150	$^{\circ}\mathbb{C}$
T _{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics $@25^{\circ}$ Unless Otherwise Specified

Symbol	Parameter	Min	Тур	Max	Units
OFF CHARACTERISTICS					
I _{CBO}	Collector Cutoff Current (V _{CB} = 60Vdc)			100	nAdc
I _{EBO}	Emitter Cutoff Current (V _{EB} = 5.0Vdc)			100	nAdc

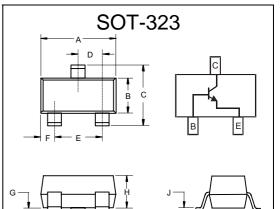
ON CHARACTERISTICS

BV _{CBO}	Collector-base breakdown voltage (I _c =100µAdc)	60			Vdc
BV _{CEO}	Collector-emitter breakdown voltage (I _C = 1mAdc)	50			Vdc
BV _{EBO}	Emitter-base breakdown voltage (I_E =100 μ Adc)	5	1	I	Vdc
h _{FE}	DC Current Gain (I _C =-1mAdc, V _{CE} =-6.0Vdc)	70	1	700	
$V_{CE(sat)}$	Collector Saturation Voltage (I _C =-50mAdc, I _B =-5.0mAdc)			0.25	Vdc
Сов	Output Capacitance (V _{CB} =10.0Vdc, I _E =0, f=1.0MHz)			3.5	pF
f⊤	Gain Bandwidth product (V _{CE} =10Vdc, I _E =1mAdc)		80		MHz

he CLASSIFICATION

Rank	0	Υ	GR	BL	
Marking	LO	LY	LG	LL	
Range	70-140	120-240	200-400	350-700	

NPN **Plastic-Encapsulate Transistors**

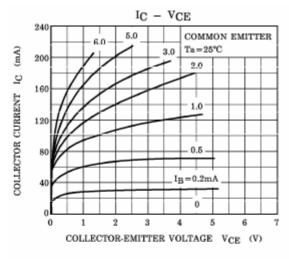


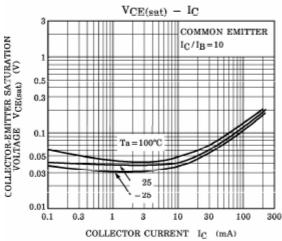
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.071	.087	1.80	2.20	
В	.045	.053	1.15	1.35	
С	.083	.096	2.10	2.45	
D	.026 Nominal		0.65Nominal		
Е	.047	.055	1.20	1.40	
F	.012	.016	.30	.40	
G	.000	.004	.000	.100	
Τ	.035	.039	.90	1.00	
J	.004	.010	.100	.250	
K	.006	.016	.15	.40	

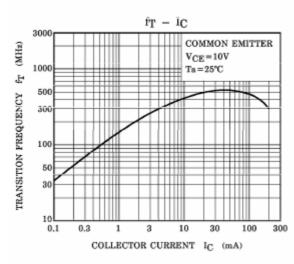
Suggested Solder Pad Layout 0.70 1.90 mm 0.65 0.65

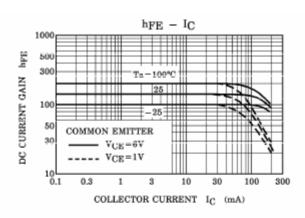


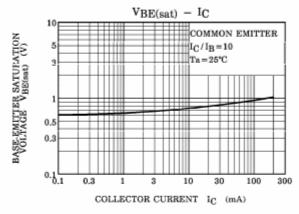
2SC4116 Typical Characteristics

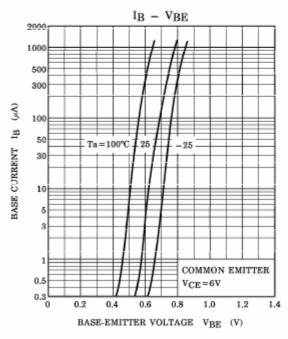






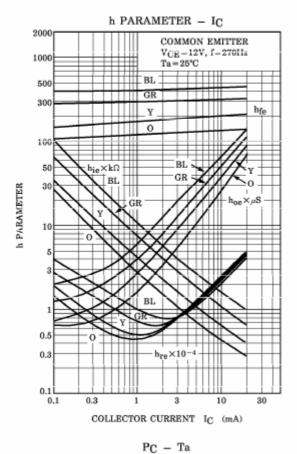


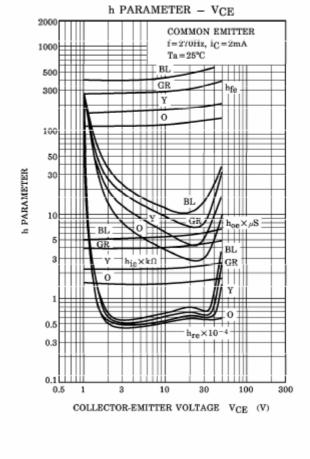


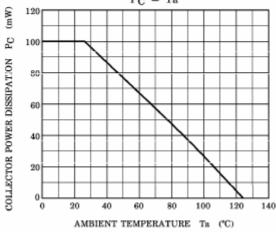


2SC4116 Typical Characteristics











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Ordering Information:

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

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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