

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 2SC2712 2SC2712-O 2SC2712-Y 2SC2712-GR 2SC2712-BL

Features

- Complementary to 2SA1162
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	50	V
V_{CBO}	Collector-Base Voltage	60	V
V_{EBO}	Emitter-Base Voltage	5.0	V
Ic	Collector Current	150	mA
Pc	Collector power dissipation	150	mW
T_J	Junction Temperature	-55 to +150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Тур	Max	Units
OFF CHARACTERISTICS					
I _{CBO}	Collector Cutoff Current (V _{CB} =60Vdc,I _E =0)			0.1	μΑ
I _{EBO}	Emitter Cutoff Current (V _{EB} =5.0Vdc, I _C =0)			0.1	μΑ

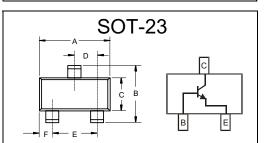
ON CHARACTERISTICS

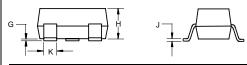
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (I _C =1mA, I _B =0)	50			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _c =100µA, I _E =0) 60			V	
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (I _E =100µA, I _C =0)	5.0	V		V
h _F	DC Current Gain* $(I_C=2mAdc, V_{CE}=6.0Vdc)$ 70		700		
V _{CE(sat)}	Collector Saturation Voltage* (I _C =-100mAdc, I _B =10mAdc)		0.1	0.25	V
Cob	Output Capacitance (V _{CB} =10V, I _E =0, f=1MHz)		2.0	3.5	pF
f⊤	Gain Bandwidth product (V _{CE} =10Vdc, I _C =1mAdc)	80			MHz
NF	Noise Figure V_{CE} =6 V , I_{C} =0.1 m A, f =1 K Hz, R_{g} =10 K Ω)		1.0	10	dB

CLASSIFICATION OF hft

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

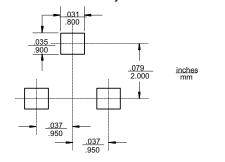
NPN Plastic-Encapsulate Transistors



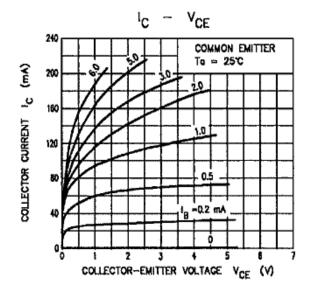


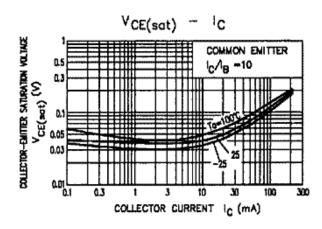
	DIMENSIONS				
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.110	.120	2.80	3.04	
В	.083	.098	2.10	2.64	
С	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
Н	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

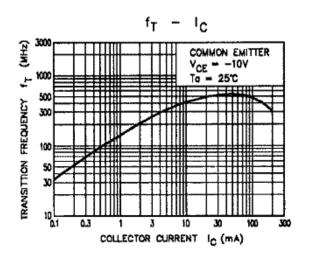
Suggested Solder Pad Layout

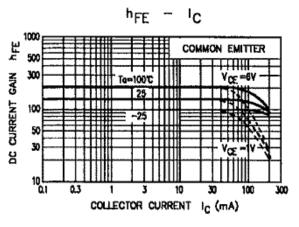


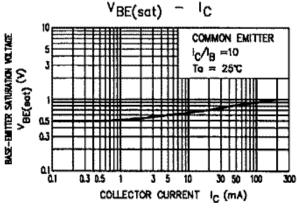


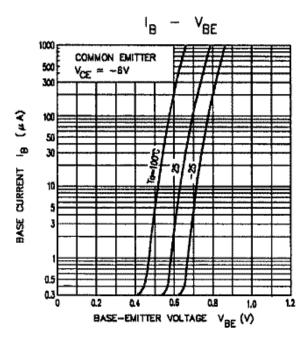












Revision: 4



Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel3Kpcs/Reel

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