



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

- Halogen free available upon request by adding suffix "-HF"
- High V_{CEO}, V_{CEO}=80V
- High I_c , I_c =1.0A(DC)
- 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 Value		e Unit	
V _{CEO}	Collector-Emitter Voltage	80	V	
V _{CBO}	Collector-Base Voltage	100	V	
V _{EBO}	Emitter-Base Voltage	5.0	V	
lc	Collector Current, DC Pulse ⁽¹⁾	1.0 2.0	А	
Pc	Collector Power Dissipation ⁽²⁾	0.5 2.0	W	
Тj	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 CHARA	OFF CHARACTERISTICS				
V _{CEO}	Collector-Emitter Breakdown Voltage (tc=1.0mAdc)	80			Vdc
V _{CBO}	Collector-Base Breakdow n Voltage (l _c =50µAdc)	100			Vdc
V _{EBO}	Emitter-Base Breakdown Voltage (⊧=50µAdc)	5.0			Vdc
сво	Collector Cutoff Current (V _{CB} =80Vdc)			1.0	µAdc
Ево	Emitter Cutoff Current (V _{EB} =4.0Vdc, _b =0)			1.0	µAdc
h _{FE}	DC Current Transfer Ratio ⁽³⁾ (V _{CE} =3.0Vdc, <u>b</u> =0.5Adc)	82		390	
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _c /I _B =500mA/20mA)		0.15	0.4	Vdc
f _T	Transition Frequency (V _{CE} =10Vdc, <u>↓</u> =50mAdc, f=100MHz)		100		MHz
C_{ob} (1) Pw=20	Output Capacitance (V _{CB} =10Vdc, <u>k</u> =0, f=1.0MHz)		20		pF

(1) Pw=20ms, duty=1/2

(2) When mounted on a 40x40x0.7mm ceramic board.

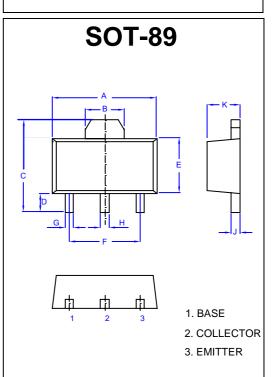
(3) Measured using pulse current

CLASSIFICATION OF hre

Rank	Р	Q	R
Range	82-180	120-270	180-390
Marking		DF	

2SD1898-P 2SD1898-Q 2SD1898-R

NPN Silicon Power Transistors



		NSINS	DIME			
NOTES	M	M	HES	INC	DIM	
	MAX	MIN	MAX	MIN		
	4.60	4.39	.181	.173	А	
REF.		1.55		.061	В	
	4.25	3.91	.165	.154	С	
	1.00	0.80	.039	.031	D	
	2.54	2.34	.100	.092	E	
TYP		3.00		.118	F	
	0.48	0.33	.019	.013	G	
	0.53	0.38	.021	.015	Н	
	0.41	0.38	.016	.015	J	
	1.60	1.40	.063	.055	K	

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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel 1Kpcs/Reel

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

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