

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Min Typ Max Units

Phone: (818) 701-4933 Fax: (818) 701-4939 2SD1898-P 2SD1898-Q 2SD1898-R

Features

Symbol

- 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	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	1.0	Α	
	Pulse ¹⁾	2.0	Λ.	
P_{C}	Collector Power Dissipation (2)	0.5	10/	
		2.0	W	
TJ	Junction Temperature	-55 to +150	°C	
T _{STG}	Storage Temperature	-55 to +150	οС	

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter

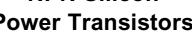
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OFF CHARA	OFF CHARACTERISTICS				
V _{CEO}	Collector-Emitter Breakdown Voltage (b=1.0mAdc)	80	-		Vdc
V _{CBO}	Collector-Base Breakdown Voltage (\(\begin{align*} \equiv 50 uAdc \)	100	1	1	Vdc
V_{EBO}	Emitter-Base Breakdown Voltage (½=50uAdc)	5.0			Vdc
Сво	Collector Cutoff Current (V _{CB} =80Vdc)			1.0	uAdc
Е во	Emitter Cutoff Current (V _{EB} =4.0Vdc, _C =0)			1.0	uAdc
h _{FE}	DC Current Transfer Ratio ⁽³⁾ (V _{CE} =3.0Vdc, _C =0.5Adc)	82		390	
V _{CE(sat)}	Collector-Emitter Saturation Voltage (l _C /l _B =500mA/20mA)		0.15	0.4	Vdc
f _⊤	Transition Frequency (V _{CE} =10Vdc, ½=50mAdc, f=100MHz)		100		MHz
C _{ob}	Output Capacitance (V _{CB} =10Vdc, ½=0, f=1.0MHz)		20		pF

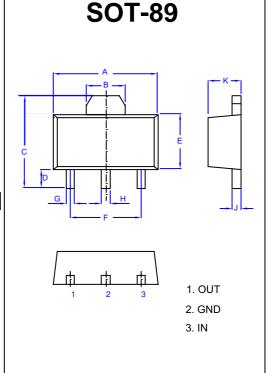
- (1) Pw=20ms, duty=1/2
- (2) When mounted on a 40x40x0.7mm ceramic board.
- (3) Measured using pulse current

CLASSIFICATION OF her

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

NPN Silicon Power Transistors





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



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Ordering Information:

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

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

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