



Micro Commercial Components
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**KTD1898-O
 KTD1898-Y
 KTD1898-GR**

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
- Moisture Sensitivity Level 1

Maximum Ratings

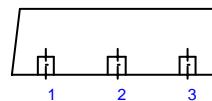
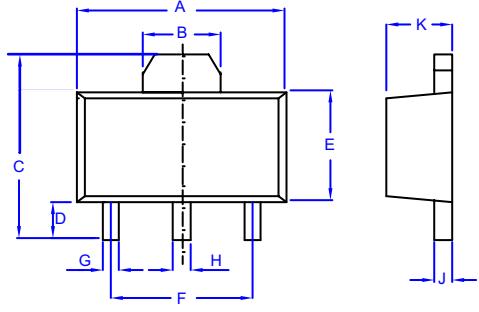
Symbol	Rating	Value	Unit
V_{CEO}	Collector-Emitter Voltage	80	V
V_{CBO}	Collector-Base Voltage	100	V
V_{EBO}	Emitter-Base Voltage	5.0	V
I_C	Collector Current, DC	1.0	A
P_C	Collector Power Dissipation	0.5	W
R_{thJA}	Thermal Resistance From Junction To Ambient	250	$^{\circ}\text{C}/\text{W}$
T_J	Junction Temperature	-55 to +150	$^{\circ}\text{C}$
T_{STG}	Storage Temperature	-55 to +150	$^{\circ}\text{C}$

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
OFF CHARACTERISTICS					
V_{CEO}	Collector-Emitter Breakdown Voltage ($I_C=1.0\text{mA DC}, I_E=0$)	80	---	---	Vdc
V_{CBO}	Collector-Base Breakdown Voltage ($I_C=100\text{uA DC}, I_E=0$)	100	---	---	Vdc
V_{EBO}	Emitter-Base Breakdown Voltage ($I_E=100\text{uA DC}, I_C=0$)	5.0	---	---	Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB}=80\text{Vdc}, I_E=0$)	---	---	1.0	$\mu\text{A DC}$
I_{EBO}	Emitter Cutoff Current ($V_{EB}=4.0\text{Vdc}, I_C=0$)	---	---	1.0	$\mu\text{A DC}$
h_{FE}	DC Current gain ($V_{CE}=3.0\text{Vdc}, I_C=0.5\text{mA DC}$)	70	---	400	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C/I_E=500\text{mA/20mA}$)	---	---	0.4	Vdc
f_T	Transition Frequency ($V_{CE}=10\text{Vdc}, I_C=50\text{mA DC}, f=100\text{MHz}$)	---	100	---	MHz
C_{bb}	Output Capacitance ($V_{CB}=10\text{Vdc}, I_E=0, f=1.0\text{MHz}$)	---	20	---	pF

NPN Silicon Power Transistors

SOT-89



1. BASE
 2. COLLECTOR
 3. Emitter

DIM	DIMENSIONS				NOTES
	INCHES	MIN	MAX	MM	
A	.173	.181	4.39	4.60	
B	.061	-----	1.55	-----	REF.
C	.154	.165	3.91	4.25	
D	.031	.039	0.80	1.00	
E	.092	.100	2.34	2.54	
F	.118	-----	3.00	-----	TYP
G	.013	.019	0.33	0.48	
H	.015	.021	0.38	0.53	
J	.015	.016	0.38	0.41	
K	.055	.063	1.40	1.60	

CLASSIFICATION OF h_{FE}

Rank	O	Y	GR
Range	70-140	120-240	200-400
Marking	ZO	ZY	ZG



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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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