



Micro Commercial Components
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KTB1366

Features

- Low Collector Saturation Voltage: $V_{CE(sat)}=1.0V(\text{Max.})$ at $I_C=2A$, $I_B=0.2A$
- Collector Power Dissipation: $P_C=25W(T_C=25^\circ C)$
- Complementary to KTD2058

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	60	V
V_{CBO}	Collector-Base Voltage	60	V
V_{EBO}	Emitter-Base Voltage	7.0	V
I_C	Collector Current	3.0	A
I_B	Base Current	0.5	A
P_C	Collector power dissipation $T_A=25^\circ C$ $T_C=25^\circ C$	2.0 25	W
T_J	Junction Temperature	-55 to +150	$^\circ C$
T_{STG}	Storage Temperature	-55 to +150	$^\circ C$

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
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OFF CHARACTERISTICS

$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C=50\text{mA}$, $I_B=0$)	60	---	---	Vdc
I_{CBO}	Collector-Base Cutoff Current ($V_{CB}=60\text{Vdc}$, $I_E=0$)	---	---	100	μAdc
I_{EBO}	Emitter-Base Cutoff Current ($V_{EB}=7.0\text{Vdc}$, $I_C=0$)	---	---	100	μAdc

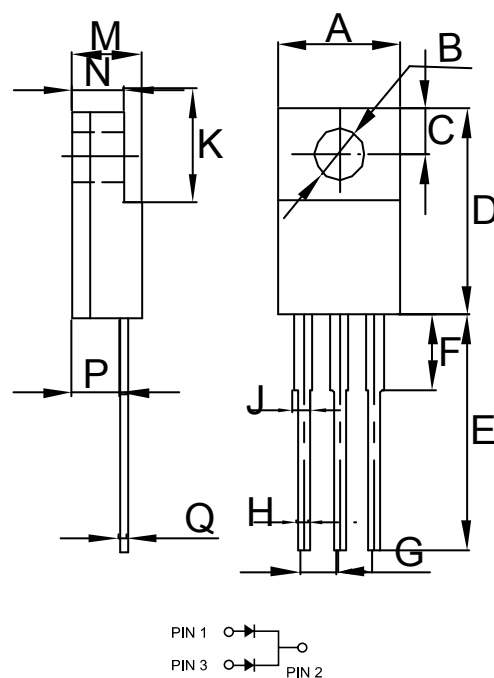
ON CHARACTERISTICS

h_{FE-1}	DC Current gain ⁽¹⁾ ($I_C=0.5\text{Adc}$, $V_{CE}=5.0\text{Vdc}$)	60	---	200	---
h_{FE-2}	DC Current gain ($I_C=3.0\text{Adc}$, $V_{CE}=5.0\text{Vdc}$)	20	---	---	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=5.0\text{Adc}$, $I_B=0.5\text{Adc}$)	---	0.25	1.0	Vdc
V_{BE}	Base-Emitter Voltage ($I_C=5.0\text{Adc}$, $I_B=0.5\text{Adc}$)	---	0.7	1.0	Vdc
f_T	Transistor Frequency ($V_{CE}=5.0\text{Vdc}$, $I_C=0.5\text{Adc}$)	---	9.0	---	MHz
C_{ob}	Collector Output Capacitance ($V_{CE}=10\text{Vdc}$, $I_C=0$, $f=1.0\text{MHz}$)	---	150	---	pF
t_{on}	Turn-on Time ($I_{B1}=I_{B2}=0.2\text{Adc}$, $V_{CC}=30\text{Vdc}$)	---	0.4	---	μs
t_{stg}	Storage Time ($I_{B1}=I_{B2}=0.2\text{Adc}$, $V_{CC}=30\text{Vdc}$)	---	1.7	---	μs
t_f	Fall Time ($I_{B1}=I_{B2}=0.2\text{Adc}$, $V_{CC}=30\text{Vdc}$)	---	0.5	---	μs

(1) Classification O:60~120, Y:100~200

PNP General Purpose Application

TO-220F



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.388	.407	9.85	10.35	
B	.128	.145	3.25	3.55	
C	.101	.111	2.57	2.83	
D	.570	.610	14.9	15.5	
E	.498	.520	12.6	13.2	
F	.148	.167	3.75	4.25	
G	.096	.101	2.44	2.57	
H	.019	.029	.47	.73	
J	.046	.056	1.17	1.43	
K	.266	.285	6.75	7.25	
M	.165	.190	4.25	4.75	
N	.110	.130	2.81	3.31	
P	.097	.107	2.72	2.48	
Q	.019	.029	.47	.73	

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