

PNP Type Transistor 2SA940

●DESCRIPTION:

The 2SA940 is a PNP type transistor, used as a power switch tube for electronic ballasts and electronic energy-saving lamps. It has the characteristics of low switching loss, high reliability, good high temperature characteristics, suitable switching speed, high breakdown voltage, low reverse leakage, etc.



TO-220

●ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	-150	V
V_{CEO}	Collector-Emitter Voltage	-150	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Continuous Collector Current	-1.5	A
P_{TOT}	Total dissipation at $T_{case}=25\text{ }^{\circ}\text{C}$	25	W
T_j	Junction Temperature	150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^{\circ}\text{C}$

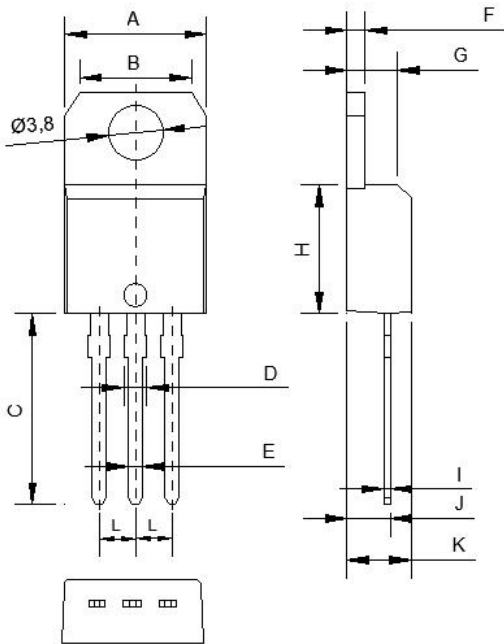
●ELECTRICAL CHARACTERISTICS (TC = 25 $^{\circ}\text{C}$, unless otherwise specified)

Symbol	Parameter	Test Condition	Value			Unit
			Min	Type	Max	
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	$I_C=-1\text{mA}$	-150			V
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	$I_C=-1\text{mA}$	-150			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	$I_E=-1\text{mA}$	-5			V
I_{CBO}	Collector Cutoff Current	$V_{CB}=-150\text{V}, I_E=0$			-5	μA
I_{CEO}	Collector Cutoff Current	$V_{CE}=-150\text{V}, I_C=0$			-5	μA
I_{EBO}	Emitter Cutoff Current	$V_{EB}=-5\text{V}, I_C=0$			-5	μA
h_{FE}	DC Current Gain	$V_{CE}=-10\text{V}, I_C=-0.5\text{A}$	40		140	
$V_{CE(sat)}$	Collector-Base Breakdown Voltage	$I_C=-0.5\text{A}, I_B=-50\text{mA}$			-0.85	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C=-0.5\text{A}, I_B=-50\text{mA}$			-1.5	V

a: 脉冲测试 $t_p \leq 300\text{ }\mu\text{s}$, $\delta \leq 2\%$

● PACKAGE MECHANICAL DATA

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Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A	9.80	10.00	0.386	0.394
B	7.70	7.90	0.303	0.311
C	13.15	13.55	0.518	0.533
D	1.51	1.61	0.059	0.063
E	0.96	1.00	0.038	0.039
F	1.20	1.30	0.047	0.051
G	3.40	3.60	0.134	0.142
H	8.80	9.10	0.346	0.358
I	0.42	0.48	0.017	0.019
J	2.80	3.10	0.110	0.122
K	4.20	4.70	0.165	0.185
L	2.50	2.60	0.098	0.102

● ELECTRICAL CHARACTERISTICS (CURVES)

