

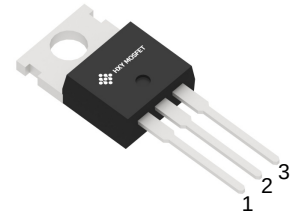


Features

- Wide safe Operating Area.
- Complementary to A940

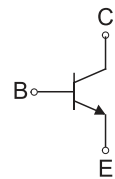
Maximum Ratings (Ta=25°C unless otherwise noted)

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	Collector Current	1.5	A
P _C	Collector Power Dissipation	1.5	W
T _J , T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C



1.BASE
2.COLLECTOR
3.EMITTER

TO-220C

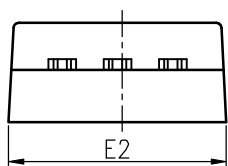
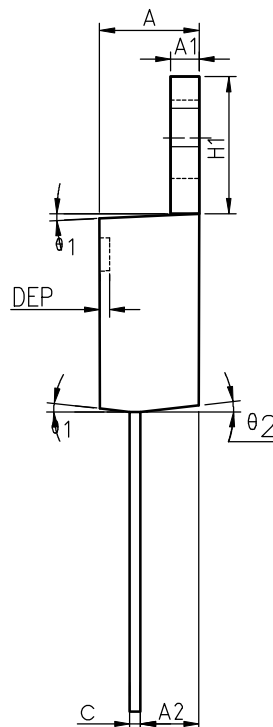
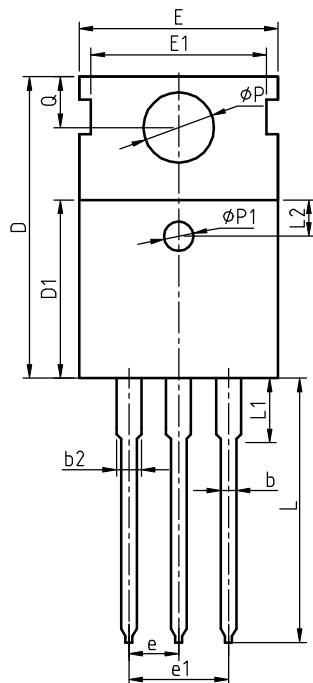


Electrical Characteristics (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdownvoltage	V _{(BR)CBO}	I _C =100μA, I _E =0	150			V
Collector-emitter breakdownvoltage	V _{(BR)CEO}	I _C =1mA, I _B =0	150			V
Emitter-basebreakdown voltage	V _{(BR)EBO}	I _E =100μA, I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =120V, I _E =0			10	μA
Emitter cut-off current	I _{EBO}	V _{EB} =5V, I _C =0			10	μA
DC current gain	h _{FE}	V _{CE} =10V, I _C =0.5A	40		140	
Collector-emitter saturationvoltage	V _{CE(sat)}	I _C =0.5A, I _B =50mA			1.5	V
Base-emitter voltage	V _{BE}	V _{CE} =10V, I _C =0.5A	0.65		0.85	V
Transition frequency	f _T	V _{CE} =10V, I _C =0.5A		4		MHz
Collectoroutput capacitance	C _{ob}	V _{CB} =10V, I _E =0, f=1MHz		35		pF



Package Information TO-220C



COMMON DIMENSIONS

SYMBOL	MIN	NOM	MAX	MIN	NOM	MAX
A	4.40	4.57	4.70	0.173	0.180	0.185
A1	1.27	1.30	1.33	0.050	0.051	0.052
A2	2.35	2.40	2.50	0.093	0.094	0.098
b	0.77	0.80	0.90	0.030	0.031	0.035
b2	1.17	1.27	1.36	0.046	0.050	0.054
c	0.48	0.50	0.56	0.019	0.020	0.022
D	15.40	15.60	15.80	0.606	0.614	0.622
D1	9.00	9.10	9.20	0.354	0.358	0.362
DEP	0.05	0.10	0.20	0.002	0.004	0.008
E	9.80	10.00	10.20	0.386	0.394	0.402
E1	-	8.70	-	-	0.343	-
E2	9.80	10.00	10.20	0.386	0.394	0.402
e		2.54	BSC		0.100	BSC
e1		5.08	BSC		0.200	BSC
H1	6.40	6.50	6.60	0.252	0.256	0.260
L	12.75	13.50	13.65	0.502	0.531	0.537
L1	-	3.10	3.30	-	0.122	0.130
L2		2.50	REF		0.098	REF
P	3.50	3.60	3.63	0.138	0.142	0.143
P1	3.50	3.60	3.63	0.138	0.142	0.143
Q	2.73	2.80	2.87	0.107	0.110	0.113
θ 1	5°	7°	9°	5°	7°	9°
θ 2	1°	3°	5°	1°	3°	5°
θ 3	1°	3°	5°	1°	3°	5°



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