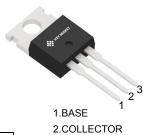


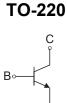
Features

Power switching applications



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

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	700	V
V_{CEO}	Collector-Emitter Voltage	400	V
V_{EBO}	Emitter-Base Voltage	9	V
Ic	Collector Current	8	Α
Pc	Collector Power Dissipation	2	W
Pc	Collector Power Dissipation(Tc=25°C)	80	W
$R_{ heta JC}$	Thermal Resistance from Junction to Case	1.56	°C/W
T_{j}, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C



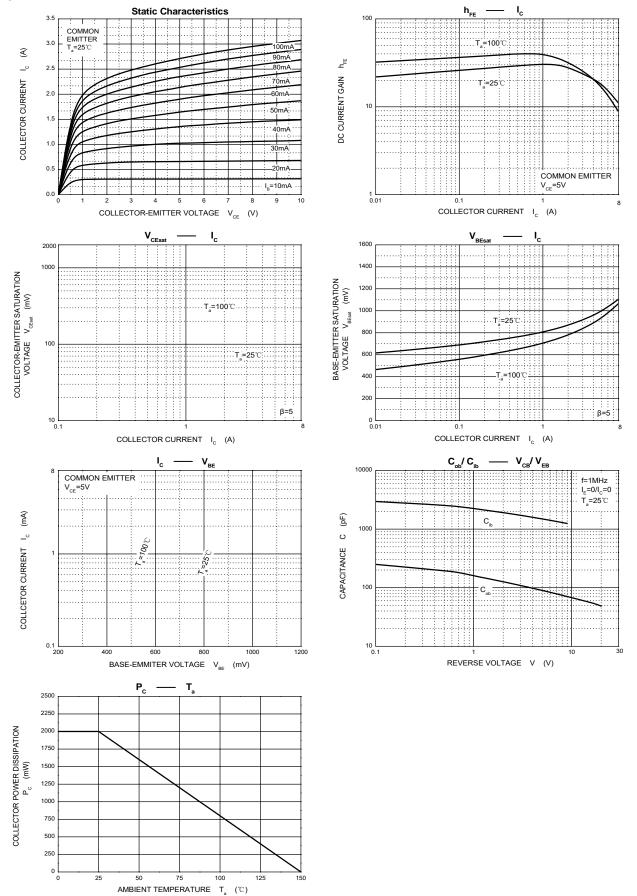
3.EMITTER

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

Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 1mA,I _E =0	700		V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =10mA,I _B =0	400		V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =1mA,I _C =0	9		V
Collector cut-off current I _{CBO} V _{CB} =700V,I _E =0		V _{CB} =700V,I _E =0		100	μ А
Collector cut-off current	I _{CEO}	V _{CE} =400V,I _B =0		100	μА
Emitter cut-off current	I _{EBO}	$V_{EB}=9V,I_{C}=0$		100	μА
DC current gain	h _{FE(1)}	V _{CE} =5V, I _C =2A	10		
DC current gain	h _{FE(2)}	V _{CE} =5V, I _C =8A	5		
	V _{CE(sat)1}	I _C =2A,I _B =0.4A		1	V
Collector-emitter saturation voltage	V _{CE(sat)2}	I _C =5A,I _B =1A		2	V
	V _{CE(sat)3}	I _C =8A,I _B =2A		3	V
Page emitter acturation valtage	V _{BE(sat)1}	I _C =2A,I _B =0.4A		1.2	V
Base-emitter saturation voltage	V _{BE(sat)2}	I _C =5A,I _B =1A		1.6	V
Storage time	ts	I _C =500mA (UI9600)	3	6	μs
Fall time	t _f	I _C =500mA (UI9600)		0.5	μs
Transition frequency	f⊤	V _{CE} =10V, I _C =0.5A,f=1MHz	4		MHz

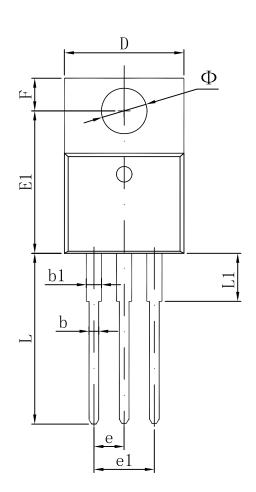


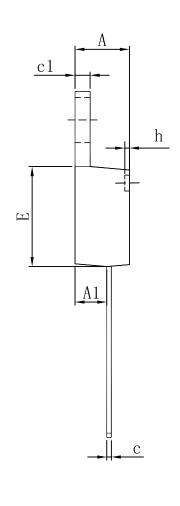
Typical Characteristics





Package Information TO-220





Cymbal	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	4.470	4.670	0.176	0.184	
A1	2.520	2.820	0.099	0.111	
b	0.710	0.910	0.028	0.036	
b1	1.170	1.370	0.046	0.054	
С	0.310	0.530	0.012	0.021	
c1	1.170	1.370	0.046	0.054	
D	10.010	10.310	0.394	0.406	
Е	8.500	8.900	0.335	0.350	
E1	12.060	12.460	0.475	0.491	
е	2.540 TYP		0.100 TYP		
e1	4.980	5.180	0.196	0.204	
F	2.590	2.890	0.102	0.114	
h	0.000	0.300	0.000	0.012	
L	13.400	13.800	0.528	0.543	
L1	3.560	3.960	0.140	0.156	
Ф	3.735	3.935	0.147	0.155	



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