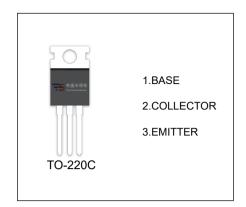


2SD1138 TRANSISTOR (NPN)

FEATURES

Low Frequency Power Amplifier Color
TV Vertical Deflection Output



MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit	
V _{CBO}	Collector-Base Voltage	200	V	
V _{CEO}	Collector-Emitter Voltage	150	V	
V _{EBO}	Emitter-Base Voltage	6	V	
Ic	Collector Current	2	Α	
Pc	Collector Power Dissipation	1.8	W	
R _{θJA}	Thermal Resistance from Junction to Ambient	69 °C/W		
T _j ,T _{stg}	eration Junction and Storage Temperature Range -55∼+150 °C			

ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

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Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltag	V _{(BR)CBO}	I _C =5mA, I _E =0	200			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =50mA,I _B =0	150			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =5mA,I _C =0	6			V
Collector cut-off current	I _{CBO}	V _{CB} =120V,I _E =0			1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =5V,I _C =0			1	μA
DC comment rain	h _{FE (1)}	V _{CE} =4V, I _C =50mA	60		200	
DC current gain	h _{FE (2)}	V _{CE} =10V, I _C =500mA	60			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =500mA,I _B =50mA			3	V
Base-emitter voltage	V_{BE}	V _{CE} =4V, I _C =50mA			1	V
Collector output capacitance	C _{ob}	V _{CB} =10V,I _E =0, f=1MHz		30		pF

^{*}Pulse test: pulse width ≤300µs, duty cycle≤ 2.0%.

CLASSIFICATION OF h_{FE(1)}

RANK	В	С
RANGE	60-120	100-200



