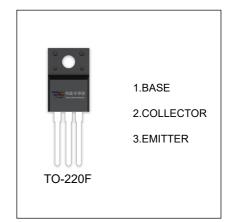


KTD2058 TRANSISTOR (NPN)

FEATURES

Low Collector Saturation Voltage
V_{CE(SAT)} = 1. 0V(MAX) .



MAXIMUM RATINGS*(T_A=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit	
V _{CBO}	Collector-Base Voltage	60	V	
V _{CEO}	Collector-Emitter Voltage	60	V	
V _{EBO}	Emitter-Base Voltage	7	V	
Ic	Collector Current -Continuous	3	А	
Pc	Collector Power Dissipation	2	W	
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C	

^{*}These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

ELECTRICALCHARACTERISTICS(Ta=25°C unless otherwise specified)

Parameter		Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage		V _{(BR)CBO}	Ic=100μA, I _E =0	60			V
Collector-emitter breakdown voltage		V _{(BR)CEO}	Ic=50mA, I _B =0	60			V
Emitter-base breakdown voltage		V _{(BR)EBO}	I _E =100 μA, I _C =0	7			V
Collector cut-off current		I _{CBO}	V _{CB} =60V, I _E =0			100	μA
Emitter cut-off current		I _{EBO}	V _{EB} =7V, I _C =0			100	μA
DC current gain		h _{FE(1)}	V _{CE} =5V, I _C =0.5A	60		200	
Collector-emitter saturation voltage		V _{CE(sat)}	I _C =2A, I _B =0.2A			1	V
Base-emitter voltage		V _{BE(on)}	V _{CE} =5V, I _C =0.5A			1	٧
Transition frequency		f _T	V _{CE} =5V, I _C =0.5A		3		MHz
Collector output capacitance		Cob	V _{CB} =10V, I _E =0, f=1MHz		35		pF
Switching time	Turn-on Time	t _{on}	INPUT INI INC.		0.65		
	Storage Time	t _{stg}			1.3		us
	Fall Time	t _f	I _{B1} =-I _{B2} =0.2A		0.65		

CLASSIFICATION of h_{FE(1)}

Rank	0	Υ		
Range	60-120	100-200		



