

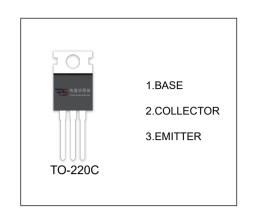
KTD1351 TRANSISTOR (NPN)

FEATURES

Low Saturations Voltage

APPLICATIONS

General Purpose Applications



MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	60	٧
V _{CEO}	Collector-Emitter Voltage	60	V
V _{EBO}	Emitter-Base Voltage	7	V
Ic	Collector Current	3	Α
Pc	Collector Power Dissipation	2	W
R _{θJA}	Thermal Resistance From Junction To Ambient	63	°C/W
T _j ,T _{STG}	Operation Junction and Storage Temperature Range	-55~150	$^{\circ}$

ELECTRICAL CHARACTERISTICS (T_a =25 $^{\circ}$ C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =100μA,I _E =0	60			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =50mA,I _B =0	60			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =100μA,I _C =0	7			V
Collector cut-off current	I _{CBO}	V _{CB} =60V,I _E =0			0.1	mA
Emitter cut-off current	I _{EBO}	V _{EB} =7V,I _C =0			0.1	mA
DC current gain	h _{FE}	V _{CE} =5V, I _C =0.5A	60		300	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =2A,I _B =0.2A			1	V
Base-emitter voltage	V _{BE}	V _{CE} =5V, I _C =0.5A			1	V
Collector output capacitance	C _{ob}	V _{CB} =10V,I _E =0, f=1MHz		35		pF
Transition frequency	f _T	VcE=5V,Ic=0.5A		3		MHz

CLASSIFICATION OF h_{FE}

RANK	0	Υ	GR
RANGE	60-120	100-200	150-300