KTC3229 TRANSISTOR (NPN)

TO-220C

1.BASE
2.COLLECTOR
3.EMITTER

FEATURES

- High Breakdown Voltage
- Small Collector Output Capacitance

APPLICATIONS

- Color TV Chroma Output Applications

MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	300	V
V_{CEO}	Collector-Emitter Voltage	300	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current	0.1	A
P_C	Collector Power Dissipation	2	W
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	63	℃/W
T_j,T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	℃

ELECTRICAL CHARACTERISTICS (T_a=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	I_C=100μA,I_E=0	300			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	I_C=1mA,I_B=0	300			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I_E=100μA,I_C=0	5			V
Collector cut-off current	I_{CBO}	V_{CB}=240V,I_E=0			1	μA
Emitter cut-off current	I_{EBO}	V_{EB}=5V,I_C=0			1	μA
DC current gain	$h_{FE(1)}$	V_{CE}=10V, I_C=20mA	30		200	
	$h_{FE(2)}$	V_{CE}=10V, I_C=0.5mA	20			
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=10mA,I_B=1mA			1	V
Collector output capacitance	C_{ob}	V_{CB}=20V,I_E=0, f=1MHz			4	pF
Transition frequency	f_T	V_{CE}=20V,I_C=20mA	75			MHz