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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





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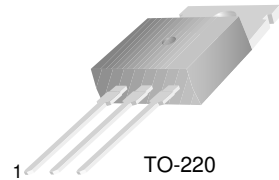
September 2011

KSC2073 NPN Epitaxial Silicon Transistor



Features

- TV Vertical Deflection Output
- Complement to KSA940
- Collector-Base Voltage : $V_{CBO} = 150V$



TO-220
1.Base 2.Collector 3.Emmitter

Absolute Maximum Ratings $T_A = 25^\circ C$ unless otherwise noted

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	150	V
V_{CEO}	Collector-Emitter Voltage	150	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current	1.5	A
P_C	Collector Dissipation ($T_C = 25^\circ C$)	25	W
T_J	Junction Temperature	150	$^\circ C$
T_{STG}	Storage Temperature	- 55 to 150	$^\circ C$

Electrical Characteristics $T_A = 25^\circ C$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Units
BV_{CBO}	Collector-Base Breakdown Voltage	$I_C = 500\mu A, I_E = 0$	150			V
BV_{CEO}	Collector-Emitter Breakdown Voltage	$I_C = 10mA, I_B = 0$	150			V
BV_{EBO}	Emitter-Base Breakdown Voltage	$I_E = 500\mu A, I_C = 0$	5			V
I_{CBO}	Collector Cut-off Current	$V_{CB} = 120V, I_E = 0$			10	μA
h_{FE}	DC Current Gain	$V_{CE} = 10V, I_C = 0.5A$	40	75	140	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = 500mA, I_B = 50mA$			1	V
f_T	Current Gain Bandwidth Product	$V_{CE} = 10V, I_C = 0.5A$		4		MHz
C_{ob}	Output Capacitance	$V_{CB} = 10V, I_E = 0, f = 1MHz$		50		pF

h_{FE} Classification

Classification	H1	H2
h_{FE}	40 ~ 80	60 ~ 125

Typical Performance Characteristics

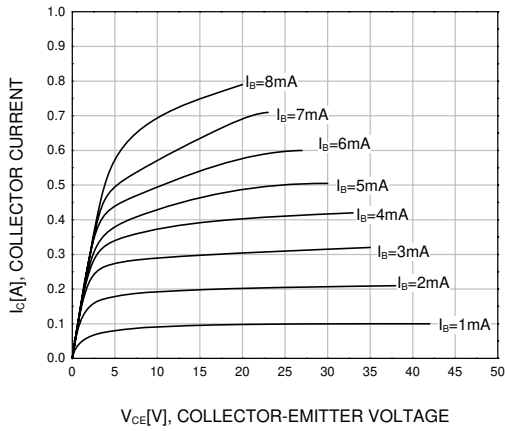


Figure 1. Static Characteristic

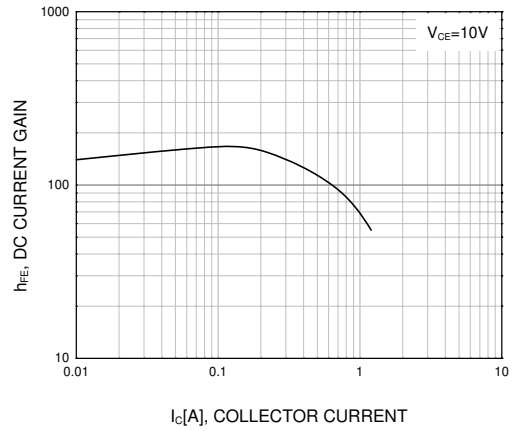


Figure 2. DC current Gain

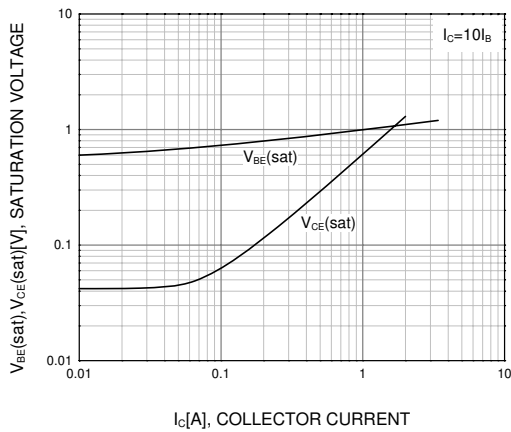


Figure 3. Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage

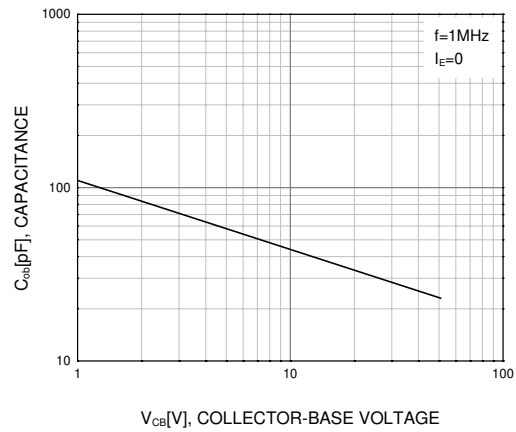


Figure 4. Collector-Emitter On Voltage

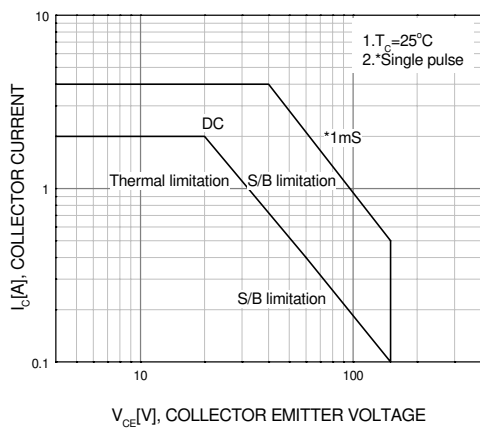


Figure 5. Safe Operating Area

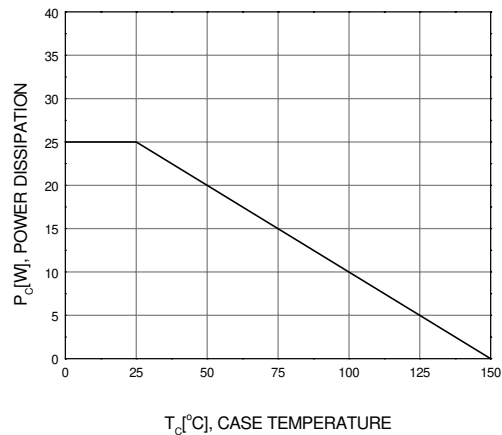



Figure 6. Power Derating

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