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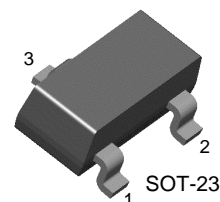
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KST55/56

Driver Transistor

- Collector-Emitter Voltage: V_{CEO} = KST55: - 60V
KST56: - 80V
- Collector Power Dissipation: P_C (max) = 350mW
- Complement to KST05/06



1. Base 2. Emitter 3. Collector

PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings $T_a=25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Units
V_{CBO}	Collector Base Voltage		
	: KST55	-60	V
	: KST56	-80	V
V_{CEO}	Collector-Emitter Voltage		
	: KST55	-60	V
	: KST56	-80	V
V_{EBO}	Emitter-Base Voltage	-4	V
I_C	Collector Current	-500	mA
P_C	Collector Power Dissipation	350	mW
T_{STG}	Storage Temperature	150	$^\circ\text{C}$
$R_{TH(j-a)}$	Thermal Resistance junction to Ambient	357	$^\circ\text{C/W}$

Electrical Characteristics $T_a=25^\circ\text{C}$ unless otherwise noted

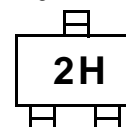
Symbol	Parameter	Test Condition	Min.	Max.	Units
BV_{CEO}	* Collector-Emitter Breakdown Voltage				
	: KST55	$I_C = -1\text{mA}, I_B = 0$	-60		V
	: KST56		-80		V
BV_{EBO}	* Emitter-Base Breakdown Voltage	$I_E = -100\mu\text{A}, I_C = 0$	-4		V
I_{CBO}	Collector Cut-off Current	$V_{CB} = -60\text{V}, I_E = 0$		-0.1	μA
I_{CEO}	Collector Cut-off Current				
	: KST55	$V_{CE} = -60\text{V}, I_B = 0$		-0.1	μA
	: KST56	$V_{CE} = -80\text{V}, I_B = 0$		-0.1	μA
h_{FE}	DC Current Gain	$V_{CE} = -1\text{V}, I_C = -10\text{mA}$	50		
		$V_{CE} = -1\text{V}, I_C = -100\text{mA}$	50		
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -100\text{mA}, I_B = -10\text{mA}$		-0.25	V
$V_{BE(on)}$	Base-Emitter On Voltage	$V_{CE} = -1\text{V}, I_C = -100\text{mA}$		-1.2	V
f_T	Current Gain Bandwidth Product	$V_{CE} = -1\text{V}, I_C = -100\text{mA}$ $f = 100\text{MHz}$	50		MHz

* Pulse Test: $PW \leq 300\mu\text{s}$, Duty Cycle $\leq 2\%$

Marking

Marking Code

Type	KST55	KST56
Mark	2H	2G



Package Dimensions

SOT-23



Dimensions in Millimeters

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