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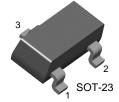
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KST05/06

Driver Transistor

- Collector-Emitter Voltage: V_{CEO} = KST05: 60V KST06: 80V
- Collector Power Dissipation: P_C (max) = 350mW
- Complement to KST55/56



1. Base 2. Emitter 3. Collector

NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings T_a =25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collecto-Base Voltage		
	: KST05	60	V
	: KST06	80	V
V _{CEO}	Collector-Emitter Voltage		
	: KST05	60	V
	: KST06	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	°C
R _{TH} (j-a)	Thermal Resistance junction to Ambient	357	°C/W

Electrical Characteristics T_a=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Max.	Units
BV _{CEO}	* Collector-Emitter Breakdown Voltage : KST05 : KST06	I _C =1mA, I _B =0	60 80		V V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E =100μA, I _C =0	4		V
I _{CBO}	Collector Cut-off Current : KST05 : KST06	V_{CB} =60V, I_{E} =0 V_{CB} =80V, I_{E} =0		0.1 0.1	μΑ μΑ
I _{CEO}	Collector Cut-off Current	V _{CE} =60V, I _B =0		0.1	μΑ
h _{FE}	DC Current Gain	V _{CE} =1V, I _C =10mA V _{CE} =1V, I _C =100mA	50 50		
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =100mA, I _B =10mA		0.25	V
V _{BE} (on)	Base-Emitter On Voltage	V _{CE} =1V, I _C =100mA		1.2	V
f _T	Current Gain Bandwidth Product	V _{CE} =2V, I _C =100mA, f=100MHz	100		MHz

^{*} Pulse Test: PW≤300μs, Duty Cycle≤2%

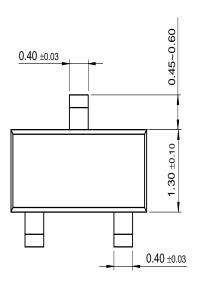
Marking Code

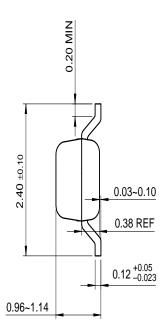
3			
	Type	KST05	KST06
	Mark	1H	1G

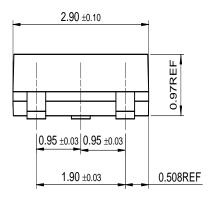


Package Dimensions

SOT-23







Dimensions in Millimeters

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