

KST20

NPN EPITAXIAL SILICON TRANSISTOR

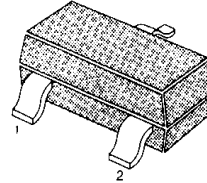
GENERAL PURPOSE TRANSISTOR

ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$)

Characteristic	Symbol	Rating	Unit
Collector-Emitter Voltage	V_{CEO}	40	V
Emitter-Base Voltage	V_{EBO}	4	V
Collector Current	I_C	100	mA
Collector Dissipation	P_C	350	mW
Storage Temperature	T_{STG}	150	$^\circ\text{C}$

• Refer to KST3904 for graphs

SOT-23

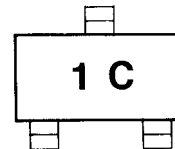


1. Base 2. Emitter 3. Collector

ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$)

Characteristic	Symbol	Test Conditions	Min	Max	Unit
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C=1.0\text{mA}$, $I_B=0$	40		V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E=100\mu\text{A}$, $I_C=0$	4		V
Collector Cut-off Current	I_{CBO}	$V_{CB}=30\text{V}$, $I_E=0$		100	nA
DC Current Gain	h_{FE}	$V_{CE}=10\text{V}$, $I_C=5\text{mA}$	40	400	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=10\text{mA}$, $I_B=1.0\text{mA}$		0.25	V
Current-Gain Bandwidth Product	f_T	$I_C=50\text{mA}$, $V_{CE}=10\text{V}$	125		MHz
Output Capacitance	C_{CB}	$V_{CB}=10\text{V}$, $I_E=0$ $f=100\text{KHz}$		4	pF

Marking



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