

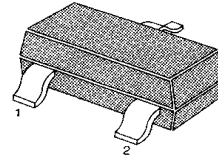
GENERAL PURPOSE TRANSISTOR

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

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V_{CB0}	-50	V
Collector-Emitter Voltage	V_{CEO}	-40	V
Emitter-Base Voltage	V_{EB0}	-5	V
Collector Current	I_C	-100	mA
Collector Dissipation	P_C	350	mW
Storage Temperature	T_{stg}	150	$^\circ\text{C}$

• Refer to KST5088 for graphs

SOT-23



1. Base 2. Emitter 3. Collector

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

Characteristic	Symbol	Test Condition	Min	Max	Unit
Collector Cut-off Current	I_{CBO}	$V_{CB} = -40\text{V}, I_E = 0$		-100	nA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -5\text{V}, I_C = 0$		-100	nA
DC Current Gain	h_{FE}	$V_{CE} = -6\text{V}, I_C = -1\text{mA}$	60	120	
KST812M3			90	180	
KST812M4			135	270	
KST812M5			200	400	
KST812M6			300	600	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -30\text{mA}, I_B = -3\text{mA}$		-0.5	V
Base-Emitter On Voltage	$V_{BE(on)}$	$V_{CE} = -6\text{V}, I_C = -1\text{mA}$		-0.8	V

MARKING CODE

TYPE	KST812M3	KST812M4	KST812M5	KST812M6	KST812M7
MARK	M3	M4	M5	M6	M7

Marking

