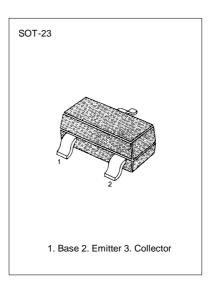
# **GENERAL PURPOSE TRANSISTOR**

# ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub>=25 $^{\circ}$ C)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage Collector-Emitter Voltage Emitter-Base Voltage Collector Current Collector Dissipation Storage Temperature	V <sub>CBO</sub> V <sub>CEO</sub> V <sub>EBO</sub> I <sub>C</sub> P <sub>C</sub> T <sub>STG</sub>	30 20 5 100 350	V V V mA mW

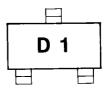
Refer to KST5088 for graphs



# ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25 °C)

Characteristic	Symbol	Test Conditions	Min	Тур	Max	Unit
Collector-Base Breakdown Voltage Collector-Emitter Breakdown Voltage Emitter-Base Breakdown Voltage DC Current Gain Collector-Emitter Saturation Voltage Base-Emitter On Voltage Output Capacitance Noise Figures	BVcBo BVcEo BVEBO hFE VCE (sat) VBE (on) COB	$\begin{array}{l} l_{C}=10 \mu A, \ l_{E}=0 \\ l_{C}=2 m A, \ l_{B}=0 \\ l_{E}=10 \mu A, \ l_{C}=0 \\ V_{CE}=5 V, \ l_{C}=2 m A \\ l_{C}=10 m A, \ l_{B}=0.5 m A \\ V_{CE}=5 V, \ l_{C}=2 m A \\ V_{CB}=10 V, \ l_{E}=0 \\ f=1 M H z \\ V_{CE}=5 V, \ l_{C}=0.2 m A \\ R_{G}=2 k \Omega, \ f=1 K H z \end{array}$	30 20 5 110 0.55		220 0.25 0.7 4	V V V V pF dB

# Marking



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E<sup>2</sup>CMOS<sup>™</sup> PowerTrench<sup>™</sup>

FACT<sup>TM</sup> QS<sup>TM</sup>

 $\begin{array}{lll} \mathsf{FACT} \ \mathsf{Quiet} \ \mathsf{Series^{\mathsf{TM}}} & \mathsf{Quiet} \ \mathsf{Series^{\mathsf{TM}}} \\ \mathsf{FAST}^{\circledast} & \mathsf{Super} \mathsf{SOT^{\mathsf{TM}}}\text{--3} \\ \mathsf{FASTr^{\mathsf{TM}}} & \mathsf{Super} \mathsf{SOT^{\mathsf{TM}}}\text{--6} \\ \mathsf{GTO^{\mathsf{TM}}} & \mathsf{Super} \mathsf{SOT^{\mathsf{TM}}}\text{--8} \\ \mathsf{Hi} \mathsf{SeC^{\mathsf{TM}}} & \mathsf{TinyLogic^{\mathsf{TM}}} \\ \end{array}$ 

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## PRODUCT STATUS DEFINITIONS

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