

isc Silicon PNP Power Transistor

KTA968A

DESCRIPTION

- Collector-Emitter Breakdown Voltage
: $V_{(BR)CEO} = -180V(\text{Min})$
- Good Linearity of h_{FE}
- Complement to Type KTC2238A
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

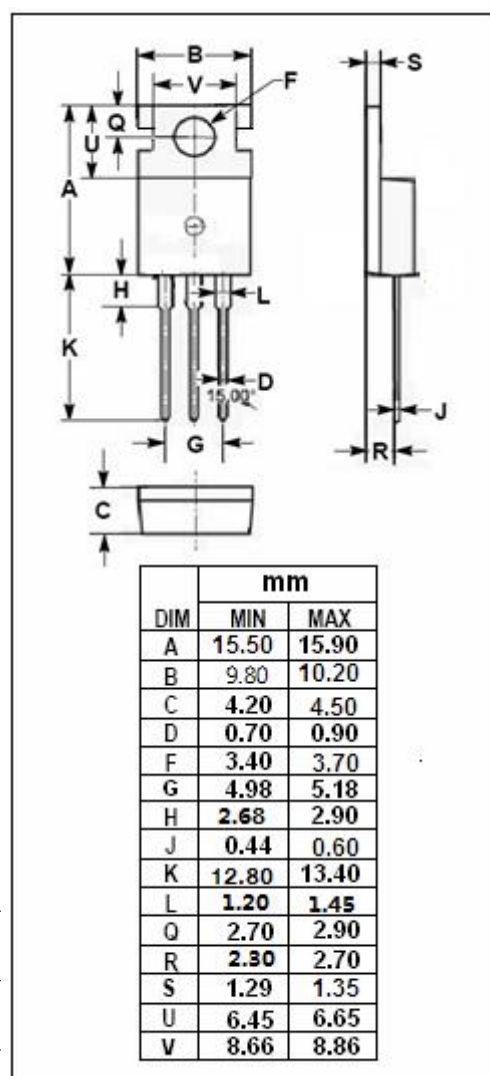
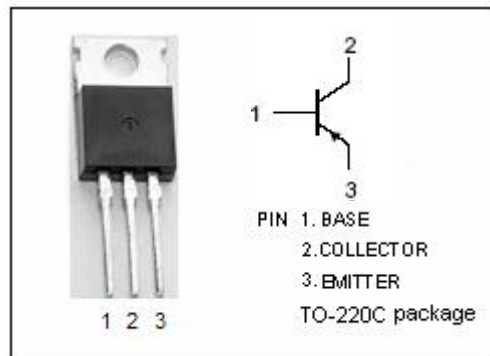
- Designed for high voltage and general purpose applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-180	V
V_{CEO}	Collector-Emitter Voltage	-180	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-1.5	A
P_C	Total Power Dissipation @ $T_C=25^\circ\text{C}$	25	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-a}$	Thermal Resistance, Junction to Ambient	63	$^\circ\text{C/W}$



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ELECTRICAL CHARACTERISTICS

Tj=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	$I_C = -0.1mA; I_B = 0$	-180			V
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	$I_C = -10mA; I_B = 0$	-180			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	$I_E = -1mA; I_C = 0$	-5			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -0.5A; I_B = -50mA$			-1.5	V
$V_{BE(on)}$	Base-Emitter On Voltage	$I_C = -0.5A; V_{CE} = -5V$			-1.0	V
I_{CBO}	Collector Cutoff Current	$V_{CB} = -160V; I_E = 0$			-1.0	μA
I_{EBO}	Emitter Cutoff Current	$V_{EB} = -5V; I_C = 0$			-1.0	μA
h_{FE}	DC Current Gain	$I_C = -0.1A; V_{CE} = -5V$	70		240	
f_T	Current-Gain—Bandwidth Product	$I_C = -0.1A; V_{CE} = -10V$		100		MHz
C_{OB}	Output Capacitance	$I_E = 0; V_{CB} = -10V; f_{test} = 1.0MHz$		30		pF

◆ h_{FE} Classifications

O	Y
70-140	120-240

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