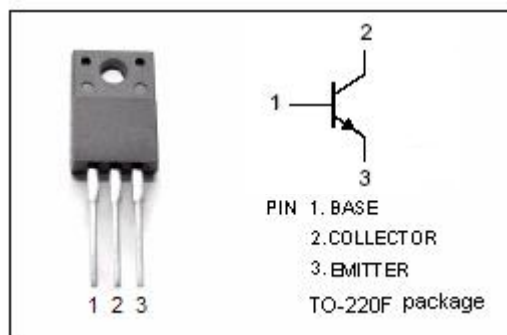


isc Silicon NPN Power Transistor
KTD2061
DESCRIPTION

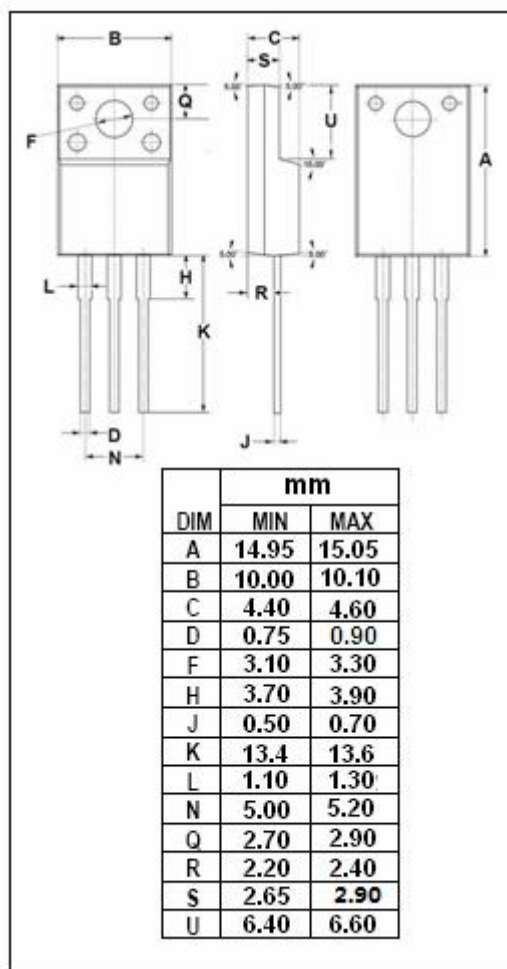
- High Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = 180V(\text{Min})$
- Low Collector Saturation Voltage-
: $V_{CE(sat)} = 1.0V(\text{Max})@ (I_C = 0.5A, I_B = 50mA)$
- Complement to Type KTB1369
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- High Voltage application
- TV, monitor vertical output application
- Driver stage application
- Color TV class B sound output application


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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	200	V
V_{CEO}	Collector-Emitter Voltage	180	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current-Continuous	2	A
I_B	Base Current-Continuous	0.2	A
P_C	Collector Power Dissipation @ $T_c=25^\circ\text{C}$	20	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55~150	$^\circ\text{C}$



isc Silicon NPN Power Transistor
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ELECTRICAL CHARACTERISTICS

 T_j=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; I _B = 0	180			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 0.5A; I _B = 50mA			1.0	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} = 200V; I _E = 0			1.0	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			1.0	μ A
h _{FE}	DC Current Gain	I _C = 0.4A; V _{CE} = 10V	70		240	
f _T	Current-Gain—Bandwidth Product	I _C = 0.4A; V _{CE} = 10V		100		MHz

◆ h_{FE} Classification

O	Y
70-140	120-240

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