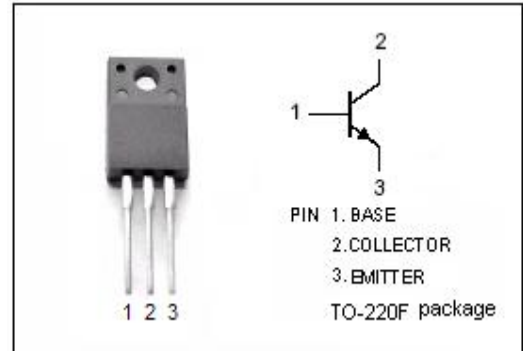


**isc Silicon NPN Power Transistors**
**KTC4369**
**DESCRIPTION**

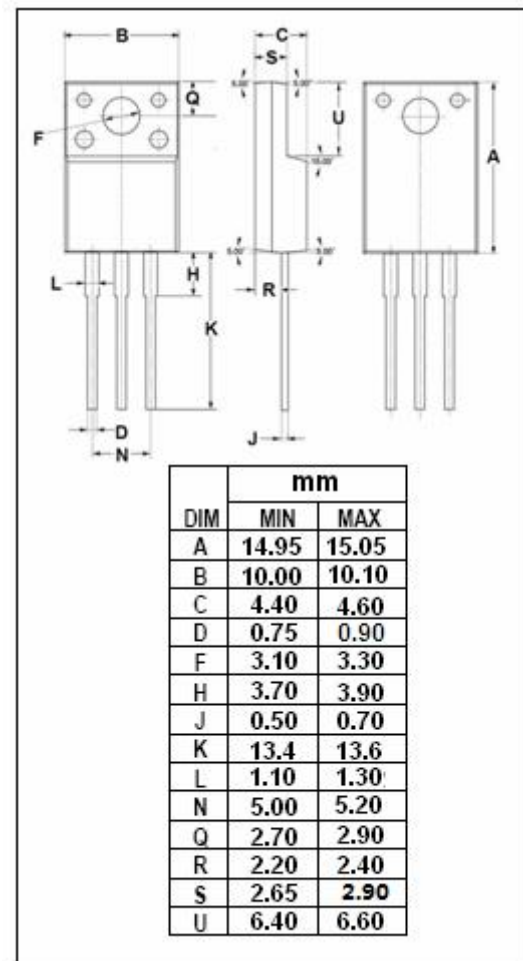
- Low Saturation Voltage-  
:  $V_{CE(sat)}=0.8V(\text{Max})@ (I_C= 2A, I_B= 0.2A)$
- Collector-Emitter Sustaining Voltage-  
:  $V_{CEO(SUS)} = 30V(\text{Min})$
- Complement to Type KTA1658
- Minimum Lot-to-Lot variations for robust device performance and reliable operation


**APPLICATIONS**

- Designed for use in general purpose applications .

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

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	30	V
$V_{CEO}$	Collector-Emitter Voltage	30	V
$V_{EBO}$	Emitter-Base Voltage	5	V
$I_C$	Collector Current-Continuous	3	A
$I_B$	Base Current	0.3	A
$P_C$	Collector Power Dissipation $T_C=25^\circ\text{C}$	15	W
$T_j$	Junction Temperature	150	$^\circ\text{C}$
$T_{stg}$	Storage Temperature Range	-55~150	$^\circ\text{C}$



**isc Silicon NPN Power Transistors**
**KTC4369**
**ELECTRICAL CHARACTERISTICS**
 $T_C=25^\circ\text{C}$  unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	$I_C=10\text{mA}; I_B=0$	30			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C=2\text{A}; I_B=0.2\text{A}$			0.8	V
$V_{BE(on)}$	Base-Emitter On Voltage	$I_C=0.5\text{A}; V_{CE}=2\text{V}$			1.0	V
$I_{CBO}$	Collector Cutoff Current	$V_{CB}=20\text{V}; I_E=0$			1	$\mu\text{A}$
$I_{EBO}$	Emitter Cutoff Current	$V_{EB}=5\text{V}; I_C=0$			1	$\mu\text{A}$
$h_{FE-1}$	DC Current Gain	$I_C=0.5\text{A}; V_{CE}=2\text{V}$	70		240	
$h_{FE-2}$	DC Current Gain	$I_C=2.5\text{A}; V_{CE}=2\text{V}$	25			
$C_{OB}$	Output Capacitance	$I_E=0; V_{CB}=10\text{V}, f_{test}=1\text{MHz}$		35		pF
$f_T$	Current-Gain—Bandwidth Product	$I_C=0.5\text{A}; V_{CE}=2\text{V}$		100		MHz

**◆  $h_{FE-1}$  Classifications**

O	Y
70-140	120-240

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