

isc Silicon NPN Power Transistor

2SC4369

DESCRIPTION

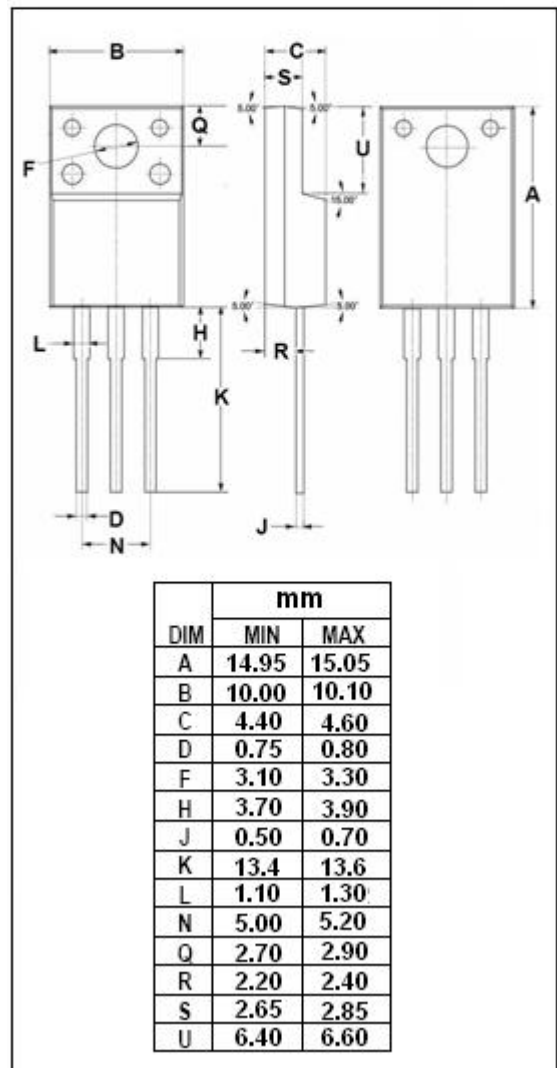
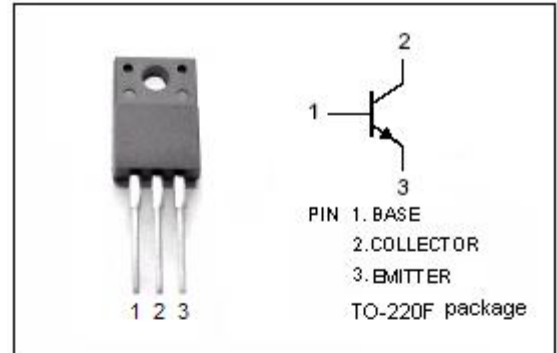
- Collector-Emitter Breakdown Voltage
: $V_{CEO} = 30V(\text{Min})$
- Good Linearity of h_{FE}
- Complement to Type 2SA1658
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for 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	5.0	V
I_C	Collector Current-Continuous	3	A
I_B	Base Current-Continuous	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	-55~150	$^\circ\text{C}$



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ELECTRICAL CHARACTERISTICS

Tj=25°C unless otherwise specified

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

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