

## isc Silicon NPN Power Transistor

2SC4368

## DESCRIPTION

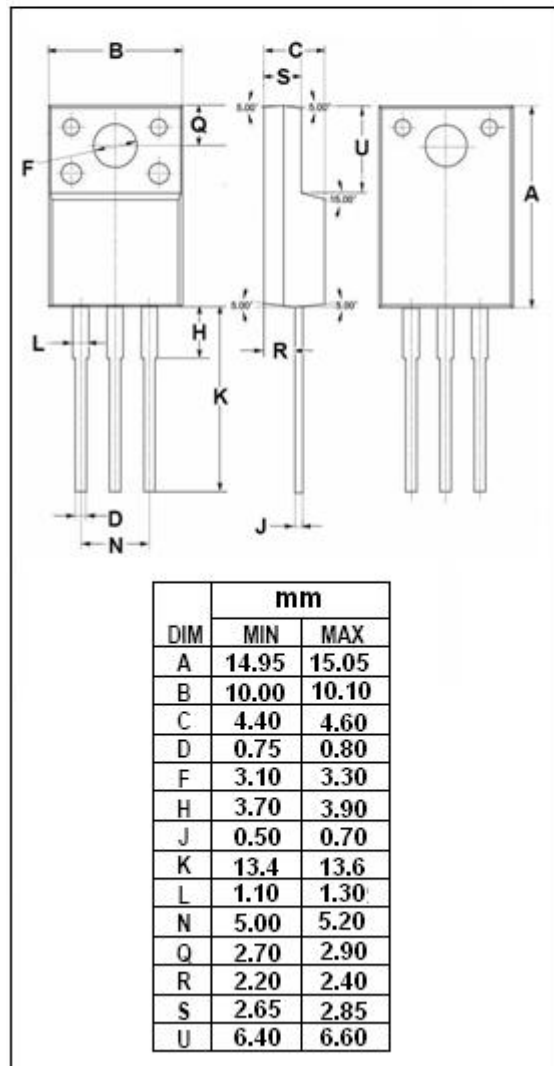
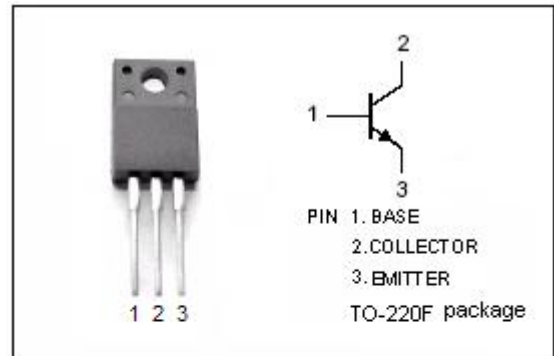
- Collector-Emitter Breakdown Voltage  
:  $V_{CEO} = 150V(\text{Min})$
- Complement to Type 2SA1657
- Good Linearity of  $h_{FE}$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

## APPLICATIONS

- Designed for TV, monitor vertical output applications

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

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	150	V
$V_{CEO}$	Collector-Emitter Voltage	150	V
$V_{EBO}$	Emitter-Base Voltage	5.0	V
$I_C$	Collector Current-Continuous	1.5	A
$I_B$	Base Current-Continuous	0.5	A
$P_C$	Collector Power Dissipation @ $T_C = 25^\circ\text{C}$	20	W
	Collector Power Dissipation @ $T_a = 25^\circ\text{C}$	2	
$T_J$	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	$I_C = 10mA; I_B = 0$	150			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = 500mA; I_B = 50mA$			1.5	V
$I_{CBO}$	Collector Cutoff Current	$V_{CB} = 120V; I_E = 0$			10	$\mu A$
$I_{EBO}$	Emitter Cutoff Current	$V_{EB} = 5V; I_C = 0$			10	$\mu A$
$h_{FE}$	DC Current Gain	$I_C = 500mA; V_{CE} = 10V$	40		140	
$C_{OB}$	Collector Output Capacitance	$I_E = 0; V_{CB} = 10V; f = 1.0MHz$		35		pF
$f_T$	Current-Gain—Bandwidth Product	$I_C = 500mA; V_{CE} = 10V$		4		MHz

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