

isc Silicon NPN Power Transistor
2SC3675
DESCRIPTION

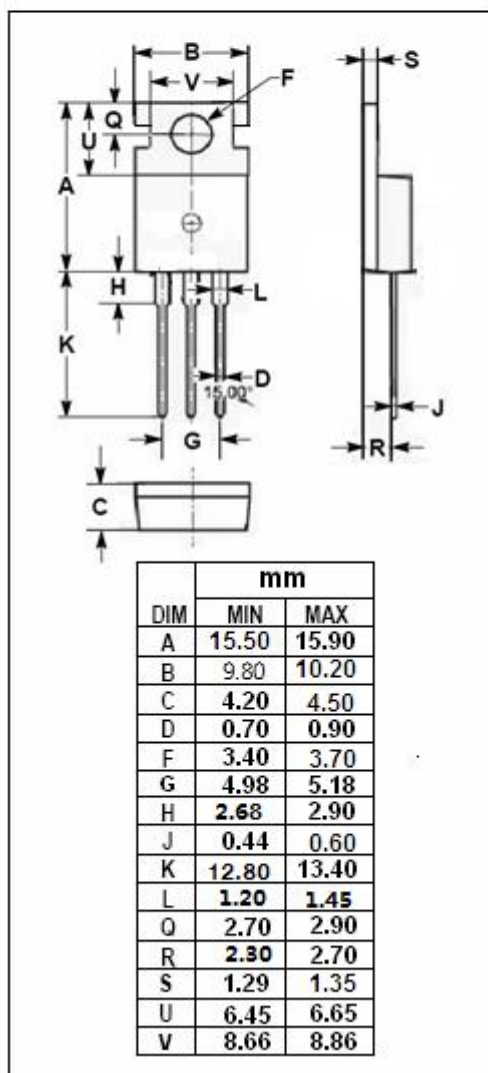
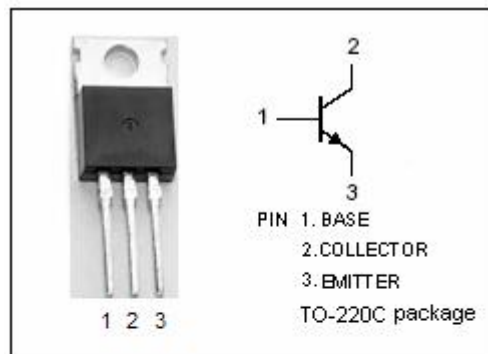
- Low Collector Saturation Voltage
- High breakdown voltage
- Small Cob
- Good Linearity of h_{FE}
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- High voltage amplifier
- High-voltage switching applications
- Dynamis focus applications

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	1500	V
V_{CEO}	Collector-Emitter Voltage	900	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current-Continuous	0.1	A
I_{CM}	Collector Current-Pulse	0.3	A
P_C	Collector Power Dissipation @ $T_C=25^{\circ}\text{C}$	10	W
T_J	Junction Temperature	150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^{\circ}\text{C}$



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ELECTRICAL CHARACTERISTICS

 T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 1mA ; I _B = 0	900			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 20mA; I _B = 4mA			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 20mA; I _B = 4mA			2.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 900V; I _E = 0			10	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V; I _C = 0			10	μ A
h _{FE}	DC Current Gain	I _C = 10mA ; V _{CE} = 5V	30			
f _T	Current-Gain—Bandwidth Product	I _E =10mA ; V _{CE} = 10V		6		MHz
C _{OB}	Output Capacitance	I _E = 0 ; V _{CB} = 100V; f _{test} = 1.0MHz		2.8		pF

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