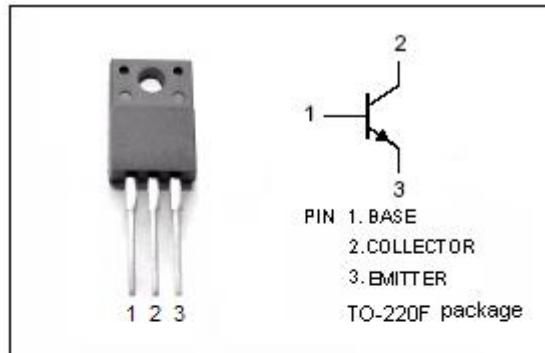


DESCRIPTION

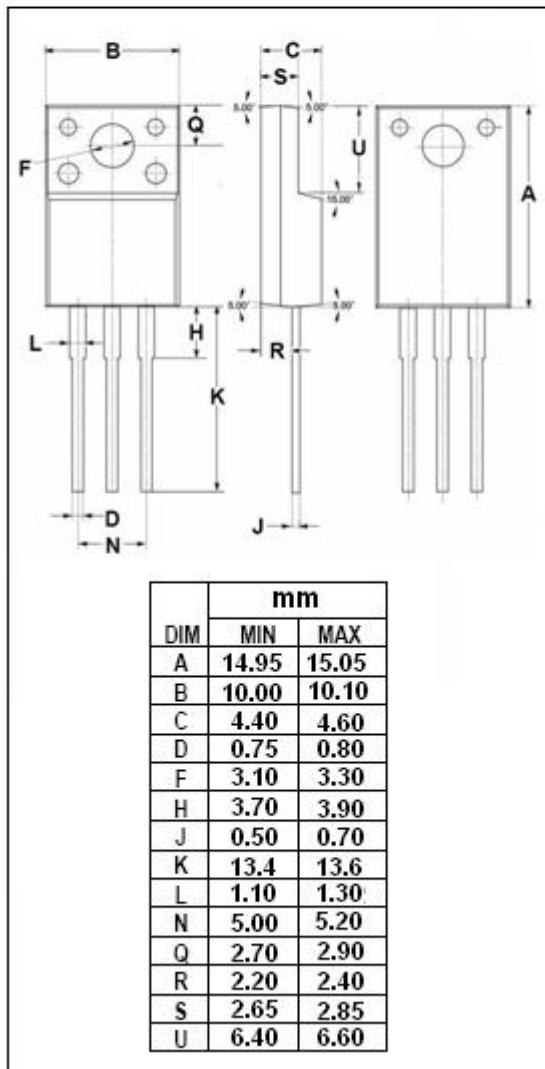
- Collector-Emitter Sustaining Voltage-
: $V_{CEO(SUS)} = 800V$ (Min)
- Fast Switching speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Electronic ballasts for fluorescent lighting
- Switch mode power supplies

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	1200	V
V_{CEO}	Collector-Emitter Voltage	800	V
V_{EBO}	Emitter-Base Voltage	7	V
I_c	Collector Current-Continuous	2	A
I_{CM}	Collector Current-Peak	4	A
I_B	Base Current-Continuous	1	A
I_{BM}	Base Current-Peak	2	A
P_T	Total Power Dissipation @ $T_c=25^\circ C$	30	W
T_J	Junction Temperature	150	°C
T_{stg}	Storage Temperature Range	-55~150	°C

**THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
$R_{th j-c}$	Thermal Resistance,Junction to Case	4.16	°C/W

ELECTRICAL CHARACTERISTICS

 $T_c=25^\circ C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CEO(SUS)}$	Collector-Emitter Sustaining Voltage	$I_C= 0.1A; I_B= 0$	800			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C= 1A; I_B= 0.2A$			1.0	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C= 1A; I_B= 0.2A$			1.5	V
I_{CBO}	Collector Cutoff Current	At rated Voltage			100	μA
I_{CEO}	Collector Cutoff Current	At rated Voltage			100	μA
I_{EBO}	Emitter Cutoff Current	At rated Voltage			100	μA
h_{FE-1}	DC Current Gain	$I_C= 1A; V_{CE}= 5V$	8			
h_{FE-2}	DC Current Gain	$I_C= 1mA; V_{CE}= 5V$	7			
f_T	Current-Gain—Bandwidth Product	$I_C= 0.2A; V_{CE}= 10V$		8		MHz

Switching times

t_{on}	Turn-on Time	$I_C= 1A, I_{B1}= 0.2A; I_{B2}= -0.4A$ $R_L= 250 \Omega; V_{BB2}= 4V$			0.5	μs
t_{stg}	Storage Time				3.5	μs
t_f	Fall Time				0.3	μs

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