

**Silicon NPN Power Transistor**

**BU2725AW**

**DESCRIPTION**

- Collector-Emitter Sustaining Voltage-  
:  $V_{CEO(SUS)} = 825V$  (Min)
- High Switching Speed

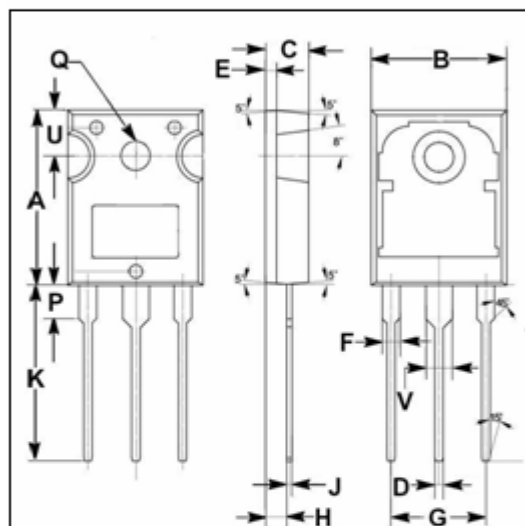
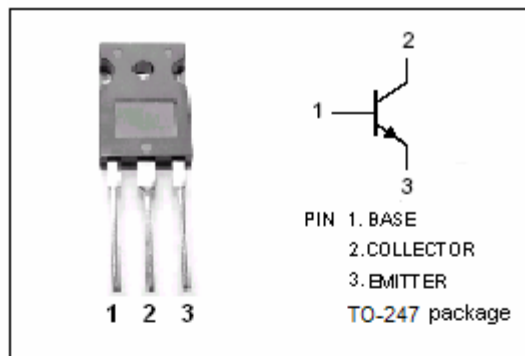
**APPLICATIONS**

- Designed for use in horizontal deflection circuits of color TV receivers.

**ABSOLUTE MAXIMUM RATINGS( $T_a=25$  )**

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CES}$	Collector- Emitter Voltage( $V_{BE} = 0$ )	1200	V
$V_{CEO}$	Collector-Emitter Voltage	825	V
$V_{EBO}$	Emitter-Base Voltage	7.5	V
$I_C$	Collector Current- Continuous	12	A
$I_{CM}$	Collector Current-Peak	30	A
$I_B$	Base Current- Continuous	12	A
$I_{BM}$	Base Current-Peak	20	A
$P_C$	Collector Power Dissipation @ $T_C=25$	125	W
$T_J$	Junction Temperature	150	
$T_{stg}$	Storage Temperature Range	-65~150	

SYMBOL	PARAMETER	MAX	UNIT
$R_{th-j-c}$	Thermal Resistance, Junction to Case	2.8	/W



DIM	mm	
	MIN	MAX
A	19.80	20.20
B	15.40	15.80
C	4.90	5.10
D	0.90	1.10
E	1.40	1.60
F	1.90	2.10
G	10.80	11.00
H	2.40	2.60
J	0.50	0.70
K	19.50	20.50
P	3.90	4.10
Q	3.30	3.50
U	5.20	5.40
V	2.90	3.10

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## ELECTRICAL CHARACTERISTICS

T<sub>C</sub>=25 unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>CEO(SUS)</sub>	Collector-Emitter Sustaining Voltage	I <sub>C</sub> = 100mA ; I <sub>B</sub> = 0,L= 25mH	825			V
V <sub>(BR)EBO</sub>	Emitter-Base Breakdown Voltage	I <sub>E</sub> = 1mA; I <sub>C</sub> = 0	7.5			V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 7A; I <sub>B</sub> = 1.75A			1.0	V
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage	I <sub>C</sub> = 7A; I <sub>B</sub> = 1.75A			1.1	V
I <sub>CES</sub>	Collector Cutoff Current	V <sub>CE</sub> = 1200V ; V <sub>BE</sub> = 0 V <sub>CE</sub> = 1200V ; V <sub>BE</sub> = 0; T <sub>C</sub> =125			1.0 2.0	mA
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = 7.5V ; I <sub>C</sub> = 0			1.0	mA
h <sub>FE-1</sub>	DC Current Gain	I <sub>C</sub> = 0.1A ; V <sub>CE</sub> = 5V		22		
h <sub>FE-2</sub>	DC Current Gain	I <sub>C</sub> = 7A ; V <sub>CE</sub> = 1V	4		8.5	