

isc Silicon NPN Power Transistor

BU608

DESCRIPTION

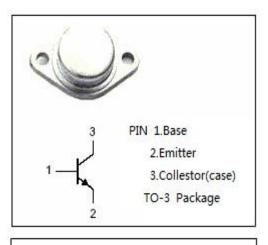
- High Voltage: V_{CEV}= 400V(Min)
- Fast Switching Speed-
- : t_f= 0.5 µ s(Max)
- Low Saturation Voltage-
- : V_{CE(sat)}= 1.0V(Max)@ I_C= 6A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

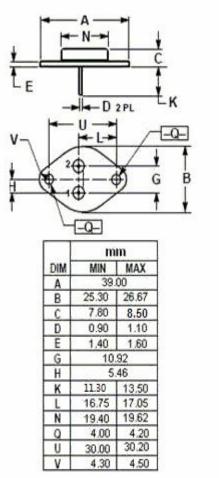
APPLICATIONS

• Designed for use in horizontal deflection output stages of TV's and CRT's

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	400	V	
V_{CEV}	Collector-Emitter Voltage	400	V	
V _{CEO}	Collector-Emitter Voltage	200	V	
V_{EBO}	Emitter-Base Voltage	6	V	
lc	Collector Current-Continuous	7	А	
I _{CM}	Collector Current-Peak	10	А	
I _B	Base Current	4	А	
Pc	Collector Power Dissipation @ Tc=25°C	90	W	
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-65~150	°C	

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)





isc website: <u>www.iscsemi.com</u>



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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA ;I _B = 0	200			v
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 6A; I _B = 1.2A			1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 6A; I _B = 1.2A			1.5	V
h _{FE}	DC Current Gain	I _C = 7A; V _{CE} = 1.5V;	4.3			
I _{CEV}	Collector Cutoff Current	V _{CE} = 400V; V _{BE} = -1.5V			15	mA
Іево	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0			400	mA
f _T	Current-Gain—Bandwidth Product	I _C = 0.5A ; V _{CE} = 10V, f _{test} = 1MHz	10			MHz
t _f	Fall Time	I _C = 6A; I _{B1} = -I _{B2} = 1.2A, V _{CC} = 40V			0.5	μs

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