



ISC Silicon NPN Power Transistor

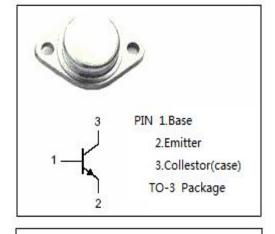
DESCRIPTION

- High Voltage: V_{CEV}= 330V(Min)
- · Fast Switching Speed-
 - : $t_f = 0.75 \,\mu \,s(Max)$
- · Low Saturation Voltage-
- : V_{CE(sat)}= 1.0V(Max)@ I_C= 5A
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation



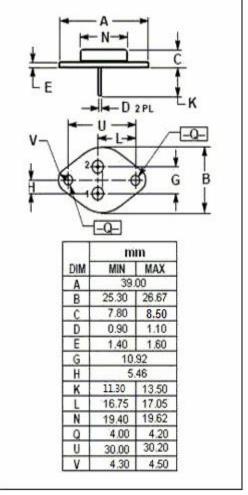
APPLICATIONS

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



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	330	V	
V _{CEV}	Collector-Emitter Voltage	330	V	
Vceo	Collector-Emitter Voltage	200	V	
V _{EBO}	Emitter-Base Voltage	6	V	
Ic	Collector Current-Continuous	7	Α	
Ісм	Collector Current-Peak	10	Α	
I _B	Base Current	4	Α	
Pc	Collector Power Dissipation @ T _c =25°C	90	W	
TJ	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$	





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BU607

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	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 = 5A; I _B = 0.65A			1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 5A; I _B = 0.65A			1.3	V
h _{FE}	DC Current Gain	I _C = 4A; V _{CE} =1V;	8			
I _{CEV}	Collector Cutoff Current	V _{CE} = 330V; V _{BE} = -1.5V			15	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0			400	mA
f⊤	Current-Gain—Bandwidth Product	I _C = 0.5A ; V _{CE} = 10V, f _{test} = 1MHz	10			MHz
t _f	Fall Time	I _C = 5A; I _{B1} = -I _{B2} = 0.65A, V _{CC} = 40V			0.75	μS

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