



isc Silicon NPN Power Transistor

DESCRIPTION

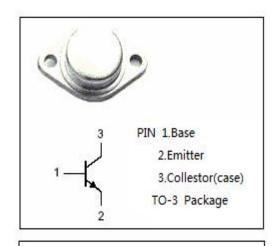
- High Voltage: V_{CEV}= 400V(Min)
- Fast Switching Speed-
 - : $t_f = 0.75 \,\mu \,s(Max)$
- · Low Saturation Voltage-
 - : V_{CE(sat)}= 1.0V(Max)@ I_C= 5A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

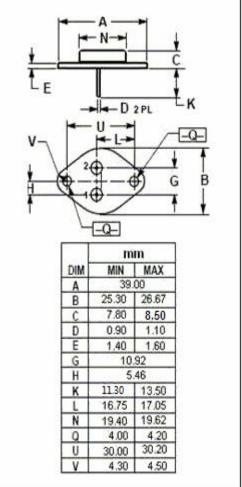
APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

ABSOLUTE IVIAXIIVIOIVI KATINGS(Ta-25 C)							
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				
Ic	Collector Current-Continuous	7	Α				
Іср	Collector Current-Peak Repetitive	10	Α				
I _{CP}	Collector Current- Peak (10ms)	15	Α				
I _B	Base Current	4	Α				
Pc	Collector Power Dissipation @ T_c =25 $^{\circ}$ C	90	W				
TJ	Junction Temperature	150	$^{\circ}$				
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$				







isc Silicon NPN Power Transistor

BU606

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

To 200 unioso otherwise specimen								
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			1.2	V		
I _{CES}	Collector Cutoff Current	V _{CE} = 400V; V _{BE} = 0 V _{CE} =250V; V _{BE} = 0 V _{CE} =250V; V _{BE} = 0;T _C = 150℃			5.0 0.1 1.0	mA		
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C =0			1.0	mA		
fτ	Current-Gain—Bandwidth Product	I _C = 0.5A ; V _{CE} = 10V, f _{test} = 20MHz	10			MHz		
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f _{test} = 1.0MHz		80		pF		
t _f	Fall Time	I _C = 5A; I _{B1} = -I _{B2} = 0.5A, L= 150 μ H V _{CC} = 40V			0.75	μ \$		

NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications. ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.