

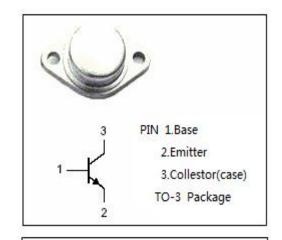
ISC Silicon NPN Power Transistors

DESCRIPTION

- Collector-Emitter Voltage-:V_{CEX(SUS)} = 700V(Min.)
- Collector Current- I_C= 10A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

 Designed for use in horizontal deflection output state of color TV receivers.

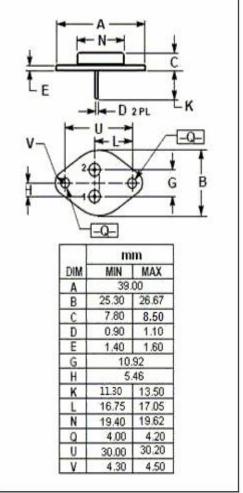


ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Emitter Voltage	700	V
V _{CEX}	Collector-Emitter Voltage V _{BE} = -5V	700	V
V _{EBO}	Emitter-Base Voltage	10	V
Ic	Collector Current-Continuous	10	А
I _B	Base Current-Continuous	4	А
Pc	Collector Power Dissipation @T _C = 90 ℃	30	W
T _j	Junction Temperature 150		$^{\circ}$
T _{stg}	Storage Temperature Range	-65~150	${\mathbb C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	2.0	°C/W





isc Silicon NPN Power Transistors

BU113

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)EBO}	Collector-Base Breakdown Voltage	I _E = 30mA; I _C = 0	10			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 10A; I _B = 2A			3.0	V
I _{CEX}	Collector Cutoff Current	V _{CE} = 250V; V _{BE} = -5V V _{CE} = 700V; V _{BE} = -5V			2.0 10	mA
h _{FE}	DC Current Gain	I _C = 8A; V _{CE} = 2V	7			
f _T	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} = 4V		6		MHz
Сов	Collector Output Capacitance	I _E = 0; V _{CB} = 10V; f= 1MHz		250		pF
t _f	Fall Time	I _C = 8A; I _{B1} = -I _{B2} = 1.6A			1.0	μS



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.