

isc Silicon NPN Power Transistor

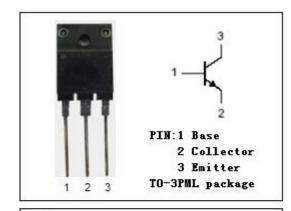
BU2522AF

DESCRIPTION

- · High Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)}= 800V(Min)
- · High Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

 Designed for use in horizontal deflection circuits of high resolution monitors.

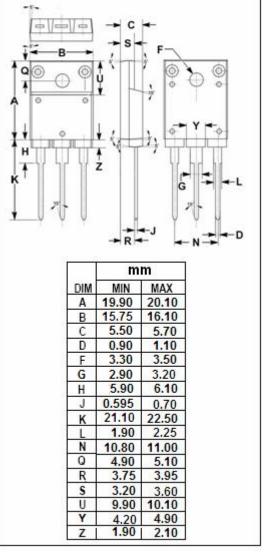


ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	1500	V	
VCEO	Collector-Emitter Voltage	800	V	
V _{EBO}	Emitter-Base Voltage	7.5	V	
Ic	Collector Current-Continuous	10	А	
I _{CM}	Collector Current-peak	25	Α	
I _B	Base Current-Continuous	6	Α	
Івм	Base Current-peak	9	Α	
Pc	Collector Power Dissipation @T _C =25℃ 45		W	
T _j	unction Temperature 150		$^{\circ}$	
T _{stg}	T _{stg} Storage Temperature Range -65~150		$^{\circ}$	

THERMAL CHARACTERISTICS

	SYMBOL	MBOL PARAMETER		UNIT
R _{th j-c} The		Thermal Resistance, Junction to Case	2.8	K/W





isc Silicon NPN Power Transistor

BU2522AF

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA ;I _B = 0	800			٧
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 6A ;I _B = 1.2A			5.0	٧
$V_{\text{BE}(\text{sat})}$	Base-Emitter Saturation Voltage	I _C = 6A ;I _B = 1.2A			1.3	٧
I _{CBO}	Collector Cutoff Current	V _{CB} = BV _{CBO;} V _{BE} = 0 V _{CB} = BV _{CBO;} V _{BE} = 0;T _C =125°C			0.25 2.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7.5V; I _C = 0			0.25	mA
h _{FE-1}	DC Current Gain	I _C = 1A; V _{CE} = 5V	10			
h _{FE-2}	DC Current Gain	I _C = 6A ; V _{CE} = 5V	5		8	



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.