

isc Silicon NPN Power Transistor

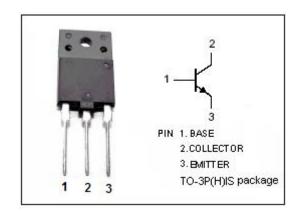
BU2507AX

DESCRIPTION

- High Switching Speed
- · High Voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

 Designed for use in horizontal deflection circuits of coluor TV receivers and computer monitors.

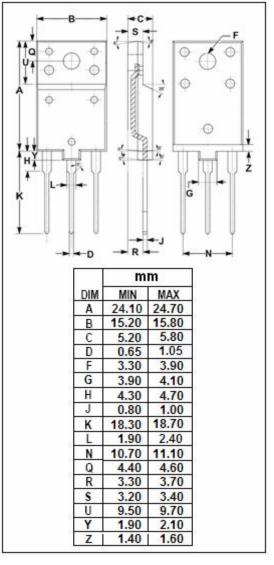


ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CESM}	Collector-Emitter Voltage V _{BE} =0	1500	V
V _{CEO}	Collector-Emitter Voltage	700	V
V _{EBO}	Emitter-Base Voltage	7.5	V
Ic	Collector Current-Continuous 8		Α
Ісм	Collector Current-peak	15	Α
I _B	Base Current-Continuous	4	Α
I _{BM}	Base Current-peak	6	Α
Pc	Collector Power Dissipation @T _C =25 ℃ 45		W
T _j	Junction Temperature 150		$^{\circ}$ C
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$ C

THERMAL CHARACTERISTICS

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





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

10-23 C unless otherwise specimen									
SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT			
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA ;I _B = 0,L= 25mH	700			V			
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	7.5			V			
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 4A ;I _B = 0.8A			5.0	V			
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 4A ;I _B = 0.8A			1.1	V			
I _{CES}	Collector Cutoff Current	V _{CE} = BV _{CES;} V _{BE} = 0 V _{CE} = BV _{CES;} V _{BE} = 0;T _C =125℃			1.0 2.0	mA			
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7.5V; I _C = 0			1.0	mA			
h _{FE-1}	DC Current Gain	I _C = 100mA; V _{CE} = 5V		17					
h _{FE-2}	DC Current Gain	I _C = 4A; V _{CE} = 5V	5	7	9				
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f _{test} = 1MHz		68		pF			

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