

isc Silicon NPN Power Transistor

BU2515DX

DESCRIPTION

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

APPLICATIONS

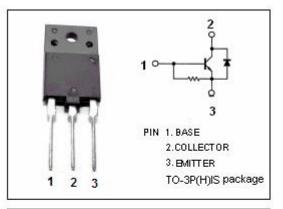
• Designed for use in horizontal deflection circuits of PC monitors.

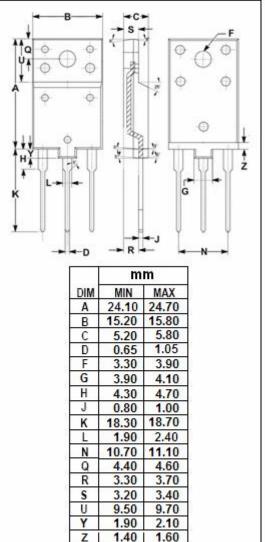
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SYMBOL	PARAMETER	VALUE	UNIT
Vces	Collector- Emitter Voltage(V _{BE} = 0) 1500		V
V _{CEO}	Collector-Emitter Voltage	800	V
V _{EBO}	Emitter-Base Voltage	7.5	V
lc	Collector Current- Continuous	9	A
I _{CM}	Collector Current-Peak	20	A
I _B	Base Current- Continuous	5	А
I _{BM}	Base Current-Peak	7.5	А
Pc	Collector Power Dissipation @ Tc=25°C	45	W
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT	
R _{th j-c}	Thermal Resistance, Junction to Case	2.8	°C/W	





isc website: <u>www.iscsemi.com</u>



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ELECTRICAL CHARACTERISTICS

 $T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA; I _B = 0	800			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 600mA; I _C = 0	7.5			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 4.5A; I _B = 0.9A			5.0	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 4.5A; I _B = 0.9A			1.0	V
I _{CES}	Collector Cutoff Current	V _{CE} = BV _{CES} ; V _{BE} = 0 V _{CE} = BV _{CES} ; V _{BE} = 0; T _C =125°C			1.0 2.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V ; I _C = 0		130		mA
h _{FE-1}	DC Current Gain	I _C = 1A; V _{CE} = 5V		13		
h _{FE-2}	DC Current Gain	Ic= 4.5A; Vce= 5V	5		10.2	
V _{ECF}	C-E Diode Forward Voltage	I _F = 4.5A			2.2	V

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