

isc Silicon NPN Power Transistor

S2530A

DESCRIPTION

- High Voltage- $V_{CEX} = 450V(\text{Min.})$
- Collector Current- $I_C = 10A$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

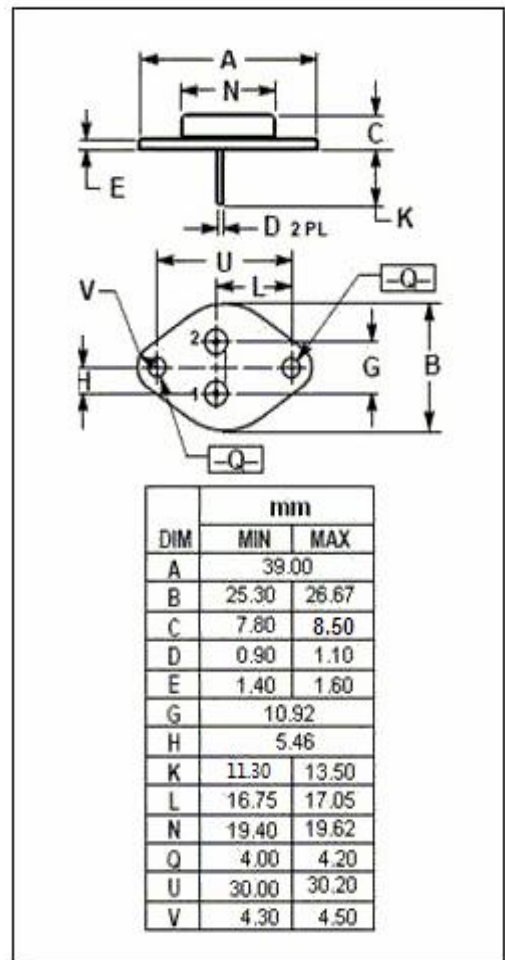
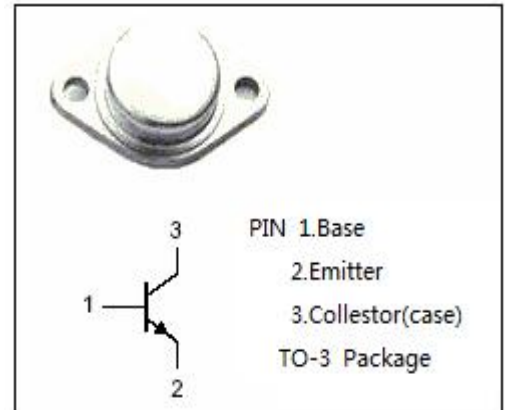
- Designed for use in large screen color deflection circuits .

ABSOLUTE MAXIMUM RATINGS($T_a = 25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Emitter Voltage	1000	V
V_{CEO}	Collector-Emitter Voltage	450	V
V_{EBO}	Emitter-Base Voltage	5	V
I_{CM}	Collector Current-Peak	10	A
P_C	Collector Power Dissipation @ $T_c = 25^\circ\text{C}$	100	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55~150	$^\circ\text{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	1.25	$^\circ\text{C/W}$



isc Silicon NPN Power Transistor**S2530A****ELECTRICAL CHARACTERISTICS****T_C=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 10mA; I _B = 0	450			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 4.5A; I _B = 2A			1.0	V
I _{CEO}	Collector Cutoff Current	V _{CE} = 400V; V _{BE} = 0			1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5.0V; I _C = 0			100	uA
I _{CBO}	Collector Cutoff Baset	V _{CB} = 1000V; V _{CE} = 0			100	uA
h _{FE}	DC Current Gain	I _C = 1A; V _{CE} = 5V	15		40	

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