

isc Silicon NPN Power Transistor
S2530A
DESCRIPTION

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

APPLICATIONS

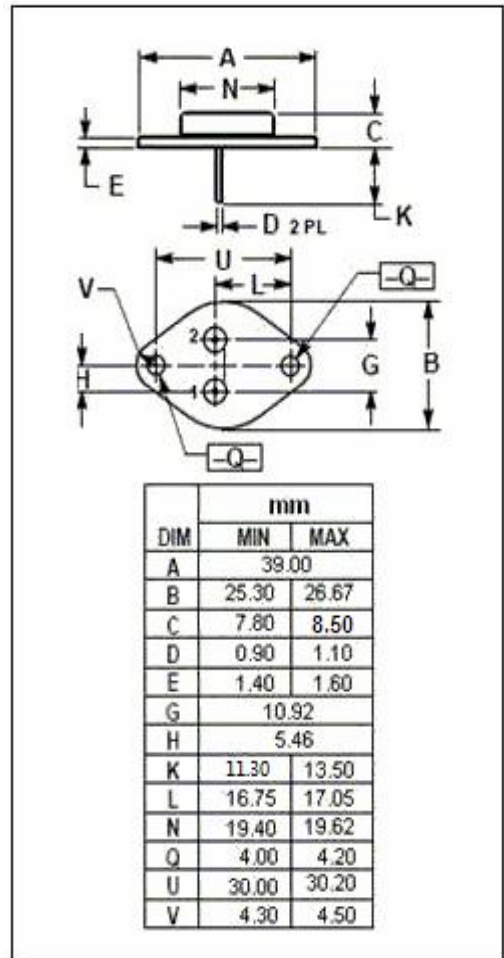
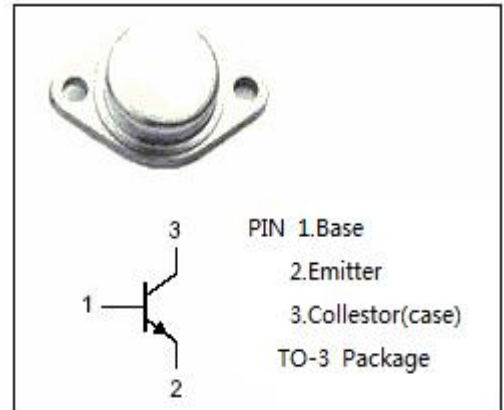
- Designed for use in large screen color deflection circuits .

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

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 @ $T_c=25^\circ C$	100	W
T_J	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature	-55~150	$^\circ C$

THERMAL CHARACTERISTICS

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



isc Silicon NPN Power Transistor**S2530A****ELECTRICAL CHARACTERISTICS** $T_C=25^{\circ}\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CE(SUS)}$	Collector-Emitter Sustaining Voltage	$I_C= 10\text{mA}; I_B= 0$	450			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C= 4.5\text{A}; I_B= 2\text{A}$			1.0	V
I_{CEO}	Collector Cutoff Current	$V_{CE}= 400\text{V}; V_{BE}= 0$			1	mA
I_{EBO}	Emitter Cutoff Current	$V_{EB}= 5.0\text{V}; I_C= 0$			100	μA
I_{CBO}	Collector Cutoff Baset	$V_{CB}= 1000\text{V}; V_{CE}= 0$			100	μA
h_{FE}	DC Current Gain	$I_C= 1\text{A}; V_{CE}= 5\text{V}$	15		40	

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