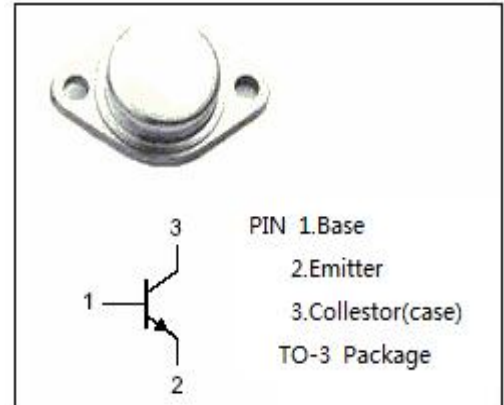


isc Silicon NPN Power Transistor
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DESCRIPTION

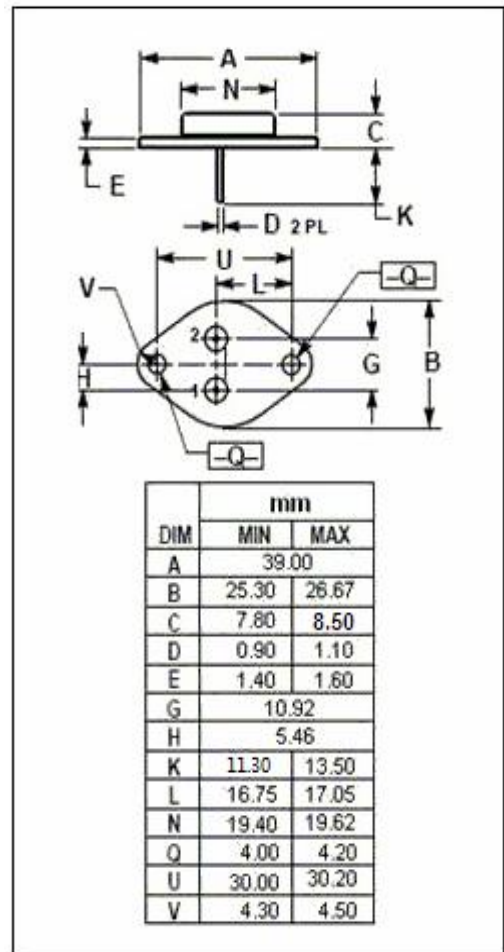
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = 400V(\text{Min.})$
- Low Collector-Emitter Saturation Voltage-
: $V_{CE(sat)} = 3.3V(\text{Max.}) @ I_C = 8A$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for use in power supply units of TV receivers.


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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	1000	V
V_{CEO}	Collector-Emitter Voltage	400	V
V_{EBO}	Emitter-Base Voltage	7	V
I_C	Collector Current-Continuous	10	A
I_{CM}	Collector Current-Peak	15	A
P_C	Collector Power Dissipation @ $T_C=25^{\circ}C$	100	W
T_J	Junction Temperature	150	$^{\circ}C$
T_{stg}	Storage Temperature Range	-65~150	$^{\circ}C$


THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R_{thj-c}	Thermal Resistance, Junction to Case	1.5	$^{\circ}C/W$

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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	$I_C=50\text{mA}; I_B=0$	400			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	$I_E=10\text{mA}; I_C=0$	7			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C=8\text{A}; I_B=2.5\text{A}$			3.3	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C=8\text{A}; I_B=2.5\text{A}$			2.2	V
I_{CES}	Collector Cutoff Current	$V_{CE}=1000\text{V}; V_{BE}=0$			1.0	mA
h_{FE-1}	DC Current Gain	$I_C=10\text{A}; V_{CE}=1.5\text{V}$	10			
h_{FE-2}	DC Current Gain	$I_C=2.5\text{A}; V_{CE}=10\text{V}$	15			
f_T	Current-Gain—Bandwidth Product	$I_C=0.1\text{A}; V_{CE}=10\text{V}$	6			MHz
t_f	Fall Time	$I_C=8\text{A}; I_{B1}=-I_{B2}=2.5\text{A}$			1.0	μs

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