

isc Silicon PNP Power Transistor
2N6425
DESCRIPTION

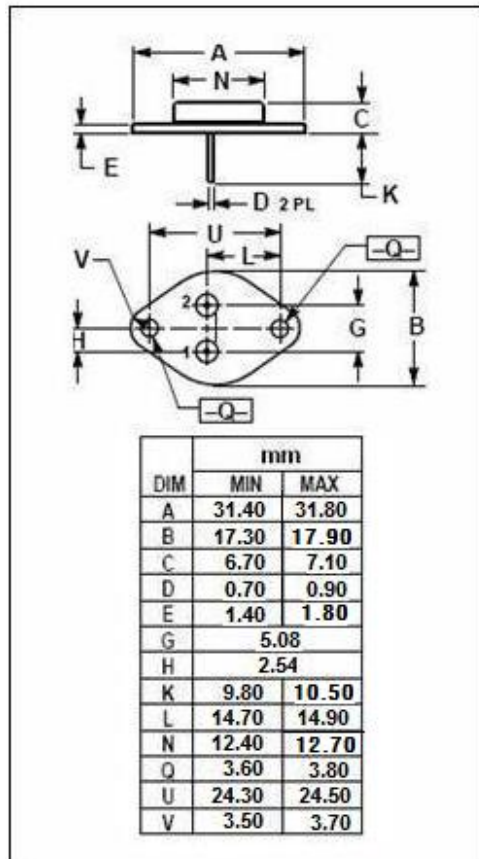
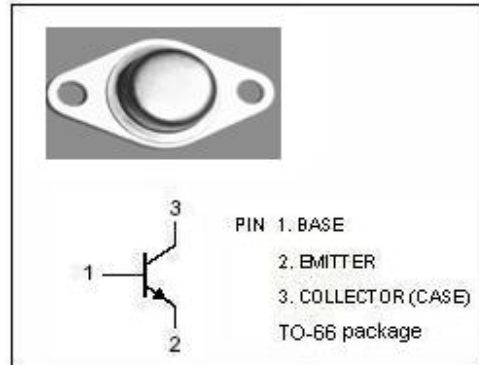
- Collector-Emitter Breakdown Voltage-
: $V_{CEO} = -300V$ (Min)
- Minimum Lot-to-Lot variations for robust device
Performance and reliable operation

APPLICATIONS

- Power amplifier and switching applications

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-325	V
V_{CEO}	Collector-Emitter Voltage	-300	V
V_{EBO}	Emitter-Base Voltage	-6	V
I_C	Collector Current-Continuous	-1	A
P_D	Collector Power Dissipation @ $T_C = 25^\circ C$	20	W
T_J	Junction Temperature	-65~200	$^\circ C$
T_{stg}	Storage Temperature Range	-65~200	$^\circ C$



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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	$I_C=-5\text{mA}$	-300			V
I_{EBO}	Emitter -Base Cutoff Current	$V_{BE}=-6\text{V}$			-100	μA
I_{CEO}	Collector-Emitter Cutoff Current	$V_{CB}=-200\text{V}$			-0.25	mA
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C=-0.25\text{A}; I_B=-0.025\text{A}$			-2.5	V
$V_{BE(on)}$	Base-Emitter On Voltage	$I_C=-0.1\text{A}; V_{CE}=-10\text{V}$			-1.0	V
h_{FE}	DC Current Gain	$I_C=-0.1\text{A}; V_{CE}=-20\text{V}$	35			

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