

isc Silicon PNP Darlington Power Transistor

ST26025A

DESCRIPTION

- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = -100V(\text{Min.})$
- High DC Current Gain-
: $h_{FE} = 750(\text{Min.}) @ I_C = -10A$
- Low Collector Saturation Voltage-
: $V_{CE(sat)} = -3.0V(\text{Max.}) @ I_C = -20A$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

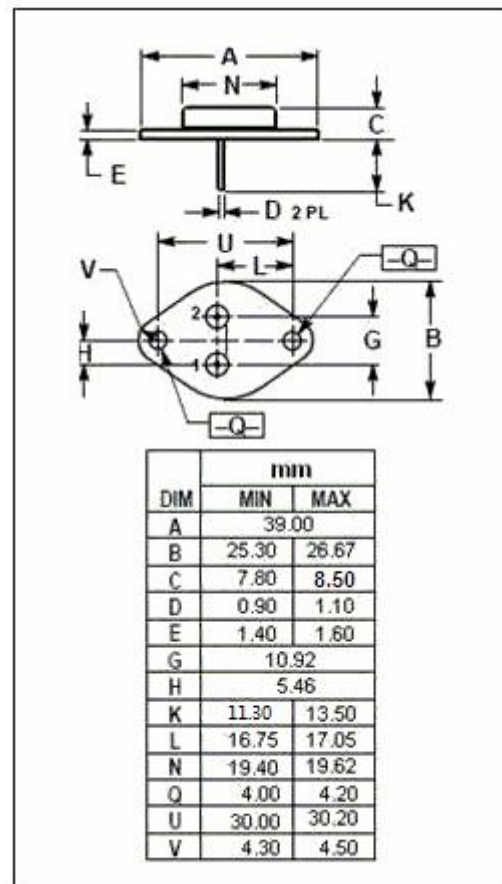
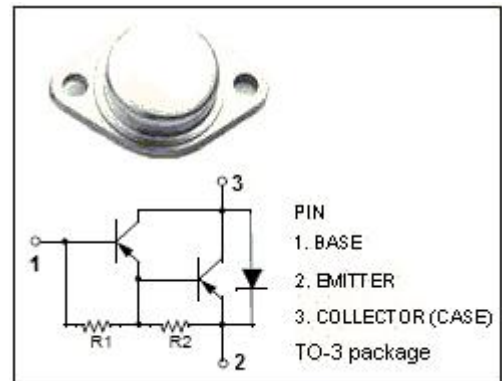
- Designed for use as output devices in complementary general purpose amplifier applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-120	V
V_{CEO}	Collector-Emitter Voltage	-100	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-20	A
I_B	Base Current-Continuous	-1	A
P_C	Collector Power Dissipation @ $T_C = 25^\circ\text{C}$	160	W
T_J	Junction Temperature	200	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~+200	$^\circ\text{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th j-c}$	Thermal Resistance, Junction to Case	0.87	$^\circ\text{C/W}$



isc Silicon PNP Darlington Power Transistor**ST26025A****ELECTRICAL CHARACTERISTICS****T_C=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -50mA; I _B = 0	-100			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -20A; I _B = -0.2A			-3.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -20A; I _B = -0.2A			-3.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} =-120V; I _E =0 V _{CB} =-120V; I _E =0; T _C =150°C			-1.0 -5.0	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = -100V; I _B = 0			-1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-5.0	mA
h _{FE}	DC Current Gain	I _C = -10A, V _{CE} = -3V	750			

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