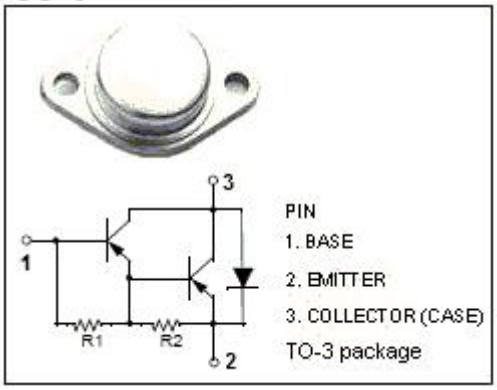
isc Silicon PNP Darlington Power Transistor ST26025A

DESCRIPTION

- Collector-Emitter Breakdown Voltage-
  : $V_{(BR)CEO}$= -100V(Min.)
- High DC Current Gain-
  : h_{FE}= 750(Min.)@I_C= -10A
- Low Collector Saturation Voltage-
  : $V_{CE\ (sat)}$= -3.0V(Max.)@ I_C= -20A



APPLICATIONS

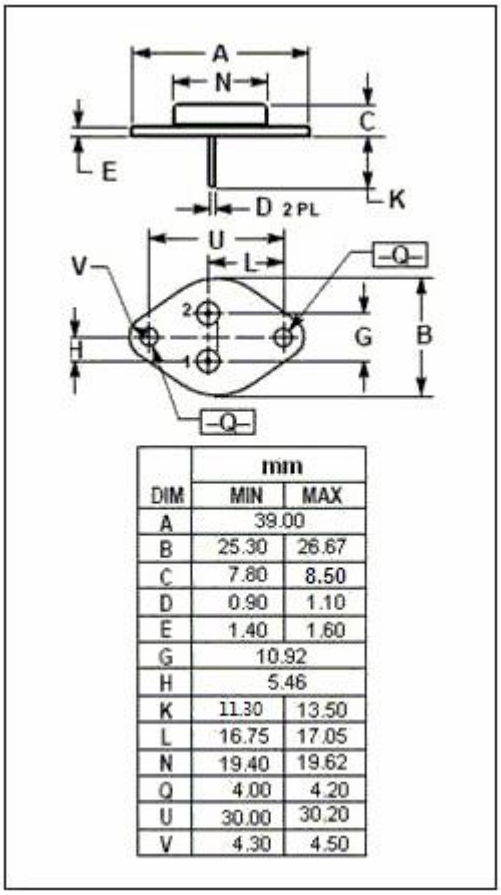
- Designed for use as output devices in complementary general purpose amplifier applications.

ABSOLUTE MAXIMUM RATINGS (T_a=25℃)

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-Continunous	-20	A
I_B	Base Current-Continunous	-1	A
P_C	Collector Power Dissipation @T_C=25℃	160	W
T_j	Junction Temperature	200	℃
T_{stg}	Storage Temperature Range	-55~+200	℃

THERMAL CHARACTERISTICS

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



DIM	mm MIN	MAX
A	39.00	
B	25.30	26.67
C	7.80	8.50
D	0.90	1.10
E	1.40	1.60
G	10.92	
H	5.46	
K	11.30	13.50
L	16.75	17.05
N	19.40	19.62
Q	4.00	4.20
U	30.00	30.20
V	4.30	4.50

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ELECTRICAL CHARACTERISTICS

T_C=25℃ 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℃			-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			