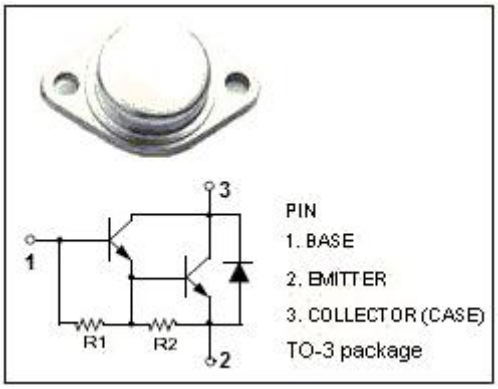
SPTECH Silicon NPN Darlingtion Power Transistor

DESCRIPTION

- Built-in Base-Emitter Shunt Resistors
- High DC current gain-
  h_{FE} = 750 (Min) @ I_C =10 Adc
- Collector-Emitter Sustaining Voltage-
  $V_{CEO(SUS)}$=100V(Min)
- Complement to type 2N6287



APPLICATIONS

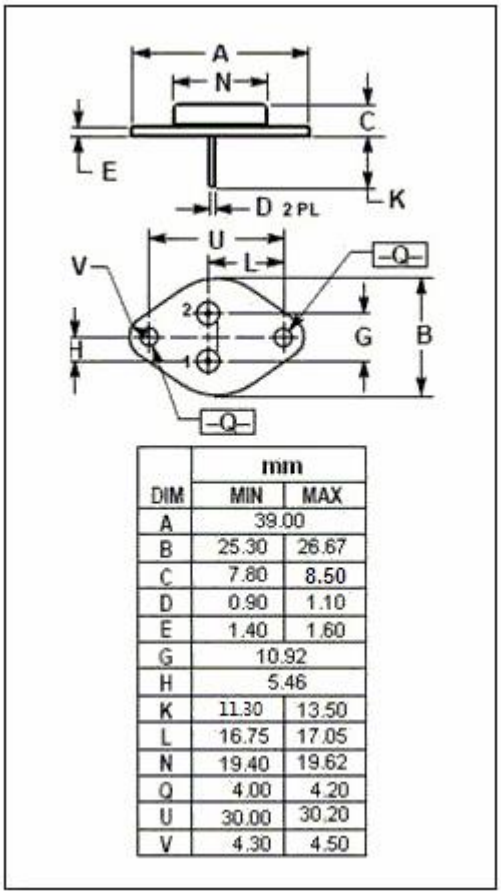
- Intended for general purpose amplifier and low frequency switching applications, such as linear and switching industrial equipment.

ABSOLUTE MAXIMUM RATINGS(T_C=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	100	V
V_{CEO}	Collector-Emitter Voltage	100	V
V_{EBO}	Emitter-Base Voltage	5.0	V
I_C	Collector Current -Continuous	20	A
I_{CP}	Collector Current-Peak	40	A
I_B	Base Current	0.5	A
P_C	Collector Power Dissipation@T_C=25℃	160	W
T_j	Junction Temperature	150	℃
T_{stg}	Storage Temperature	-65~150	℃

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	ThermalResistance, Junction to Case	1.09	℃/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

SPTECH Silicon NPN Darlingtion Power Transistor

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{CEO(SUS)}$	Collector-Emitter Sustaining Voltage	I_C= 50mA ; I_B= 0	100		V
$V_{CE(sat)-1}$	Collector-Emitter Saturation Voltage	I_C= 10A; I_B= 40mA		2.0	V
$V_{CE(sat)-2}$	Collector-Emitter Saturation Voltage	I_C= 20A; I_B= 200mA		3.0	V
$V_{BE(sat)}$	Base-Emitter Saturation voltage	I_C= 20A; I_B= 200mA		4.0	V
$V_{BE(on)}$	Base-Emitter On voltage	I_C= 10A ; V_{CE}= 3V		2.8	V
I_{CEO}	Collector Cutoff current	V_{CE}= 50V; I_B=0		1.0	mA
I_{CEX}	Collector Cutoff current	V_{CE}= 100V; $V_{BE(off)}$= 1.5V V_{CE}= 100V; $V_{BE(off)}$= 1.5V, T_C=150℃		0.5 5.0	mA
I_{EBO}	Emitter Cut-off current	V_{EB}= 5V; I_C= 0		2.0	mA
h_{FE-1}	DC Current Gain	I_C= 10A ; V_{CE}= 3V	750	18000	
h_{FE-2}	DC Current Gain	I_C= 20A ; V_{CE}= 3V	100		
C_{OB}	Output Capacitance	I_E=0 ; V_{CB}= 10V;f_{test}= 1.0MHz		400	pF