

SPTECH Silicon PNP Darlington Power Transistor FW26025A1

DESCRIPTION

- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = -120V(\text{Min.})$
- High DC Current Gain-
: $h_{FE} = 1000(\text{Min.})@I_C = -20A$
- Low Collector Saturation Voltage-
: $V_{CE(sat)} = -3.0V(\text{Max.})@I_C = -20A$

APPLICATIONS

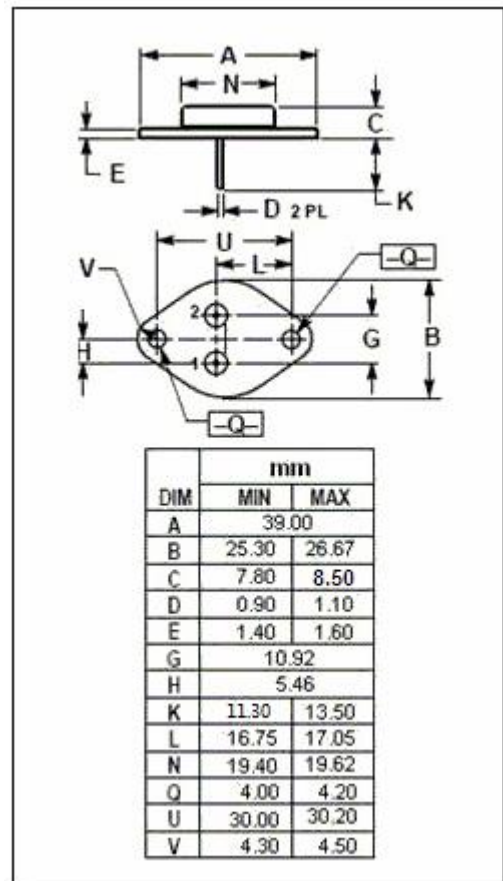
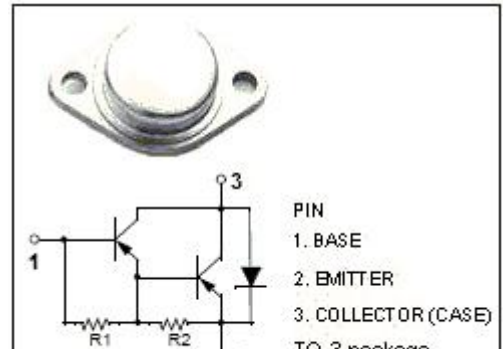
- Designed for use as output devices in complementary general purpose amplifier applications.

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-100	V
V _{CEO}	Collector-Emitter Voltage	-100	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current-Continuous	-20	A
I _{Cm}	Collector Peak Current	-40	A
P _C	Collector Power Dissipation @T _C =25°C	160	W
T _J	Junction Temperature	200	°C
T _{stg}	Storage Temperature Range	-55~+200	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.87	°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	$I_C = -50\text{mA}; I_B = 0$	-120			V
$V_{CE(sat)-1}$	Collector-Emitter Saturation Voltage	$I_C = -20\text{A}; I_B = -0.2\text{A}$			-3.0	V
$V_{CE(sat)-2}$	Collector-Emitter Saturation Voltage	$I_C = -30\text{A}; I_B = -0.3\text{A}$			-4.0	V
$V_{BE(sat)-1}$	Base-Emitter Saturation Voltage	$I_C = -20\text{A}; I_B = -0.2\text{A}$			-3.5	V
$V_{BE(sat)-2}$	Base-Emitter Saturation Voltage	$I_C = -30\text{A}; I_B = -0.3\text{A}$			-5.0	V
I_{CBO}	Collector Cutoff Current	$V_{CB} = -120\text{V}; I_E = 0$ $V_{CB} = -120\text{V}; I_E = 0; T_c = 150^{\circ}\text{C}$			-1.0 -5.0	mA
I_{CEO}	Collector Cutoff Current	$V_{CE} = -120\text{V}; I_B = 0$			-1.0	mA
I_{EBO}	Emitter Cutoff Current	$V_{EB} = -5\text{V}; I_C = 0$			-5.0	mA
h_{FE-1}	DC Current Gain	$I_C = -20\text{A}, V_{CE} = -5\text{V}$	1000			
h_{FE-2}	DC Current Gain	$I_C = -30\text{A}, V_{CE} = -5\text{V}$	200			

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