

Silicon NPN Power Transistors

BU426AF

DESCRIPTION

www.datasheet4u.com

- With TO-3PML package
- High voltage ,high speed

APPLICATIONS

- Intended for use in switching-mode color TV supply systems

PINNING

PIN	DESCRIPTION
1	Base
2	Collector;connected to mounting base
3	Emitter

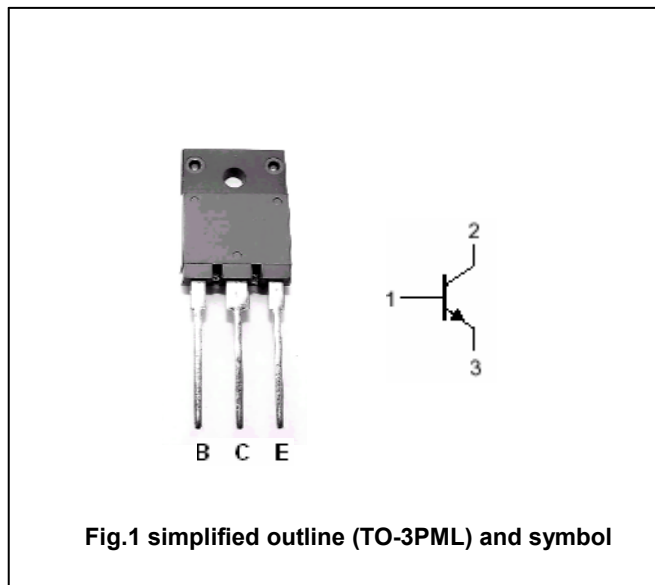


Fig.1 simplified outline (TO-3PML) and symbol

Absolute maximum ratings (Ta=25°C)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V _{CBO}	Collector-base voltage	Open emitter	900	V
V _{CEO}	Collector-emitter voltage	Open base	400	V
V _{EBO}	Emitter-base voltage	Open collector	10	V
I _C	Collector current (DC)		6	A
I _{CM}	Collector current (Pulse)		8	A
I _B	Base current		3	A
P _C	Collector power dissipation	T _C =25°C	65	W
T _j	Junction temperature		150	°C
T _{stg}	Storage temperature		-65~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	VALUE	UNIT
R _{th j-c}	Thermal resistance from junction to case	2.08	°C/W

Silicon NPN Power Transistors

BU426AF

CHARACTERISTICS

www.datasheet4u.com

 $T_j=25^\circ\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CEO(SUS)}$	Collector-emitter sustaining voltage	$I_C=100\text{mA}; I_B=0$	400			V
$V_{CEsat-1}$	Collector-emitter saturation voltage	$I_C=2.5\text{A}; I_B=0.5\text{A}$			1.5	V
$V_{CEsat-2}$	Collector-emitter saturation voltage	$I_C=4\text{A}; I_B=1.25\text{A}$			3.0	V
$V_{BEsat-1}$	Base-emitter saturation voltage	$I_C=2.5\text{A}; I_B=0.5\text{A}$			1.4	V
$V_{BEsat-2}$	Base-emitter saturation voltage	$I_C=4\text{A}; I_B=1.25\text{A}$			1.6	V
I_{CES}	Collector cut-off current	$V_{CE}=900\text{V}; V_{BE}=0$ $T_C=125^\circ\text{C}$			1.0 2.0	mA
I_{EBO}	Emitter cut-off current	$V_{EB}=10\text{V}; I_C=0$			10	mA
h_{FE}	DC current gain	$I_C=0.6\text{A}; V_{CE}=5\text{V}$		30	60	

Switching times

t_{on}	Turn-on time	$I_C=2.5\text{A}; V_{CC}=250\text{V}$ $I_{B1}=0.5\text{A}$			0.5	μs
t_{stg}	Storage time	$I_C=2.5\text{A}; V_{CC}=250\text{V}$ $I_{B1}=0.5\text{A}; I_{B2}=-1\text{A}$			3.5	μs
t_f	Fall time				0.5	μs

Silicon NPN Power Transistors

BU426AF

PACKAGE OUTLINE

www.datasheet4u.com



Fig.2 outline dimensions