Silicon PNP Power Transistors 2N6475 2N6476

DESCRIPTION

·With TO-220 package
·Low collector saturation voltage
·Excellent safe operating area

APPLICATIONS

·General-purpose medium power for switching and amplifier applications

PINNING

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

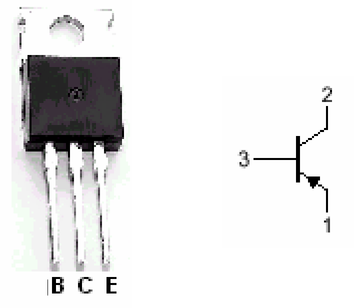

Fig.1 simplified outline (TO-220) and symbol

Absolute maximum ratings(Ta=25□)

SYMBOL	PARAMETER		CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	2N6475	Open emitter	-110	V
		2N6476		-130	
V_{CEO}	Collector-emitter voltage	2N6475	Open base	-100	V
		2N6476		-120	
V_{EBO}	Emitter-base voltage		Open collector	-5	V
I_C	Collector current			-4	A
I_B	Base current			-2	A
P_T	Total power dissipation		T_C=25□	40	W
T_j	Junction temperature			150	□
T_{stg}	Storage temperature			-65~150	□

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal resistance from junction to case	3.125	□/W

CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER		CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CEO(SUS)}$	Collector-emitter sustaining voltage	2N6475	I_C=-0.1A ;I_B=0	-100			V
		2N6476		-120			
$V_{CEsat-1}$	Collector-emitter saturation voltage		I_C=-1.5A;I_B=-0.15A			-1.2	V
$V_{CEsat-2}$	Collector-emitter saturation voltage		I_C=-4A;I_B=-2A			-2.5	V
V_{BE-1}	Base-emitter on voltage		I_C=-1.5A ; V_{CE}=-4V			-2.0	V
V_{BE-2}	Base-emitter on voltage		I_C=-4A ; V_{CE}=-2.5V			-3.5	V
I_{CEX}	Collector cut-off current	2N6475	V_{CE}=-100V;V_{BE}=-1.5V T_C=100℃			-0.1 -2.0	mA
		2N6476	V_{CE}=-120V;V_{BE}=-1.5V T_C=100℃			-0.1 -2.0	
I_{CEO}	Collector cut-off current	2N6475	V_{CE}=-50V;I_B=0			-1.0	mA
		2N6476	V_{CE}=-60V;I_B=0				
I_{EBO}	Emitter cut-off current		V_{EB}=-5V; I_C=0			-1.0	mA
h_{FE-1}	DC current gain		I_C=-1.5A ; V_{CE}=-4V	15		150	
h_{FE-2}	DC current gain		I_C=-4A ; V_{CE}=-2.5V	2			
C_{OB}	Output capacitance		I_E=0 ; V_{CB}=-10V;f=1MHz			250	pF
f_T	Transition frequency	2N6475	I_C=-0.5A ; V_{CE}=-4V	4			MHz
		2N6476		5			

PACKAGE OUTLINE

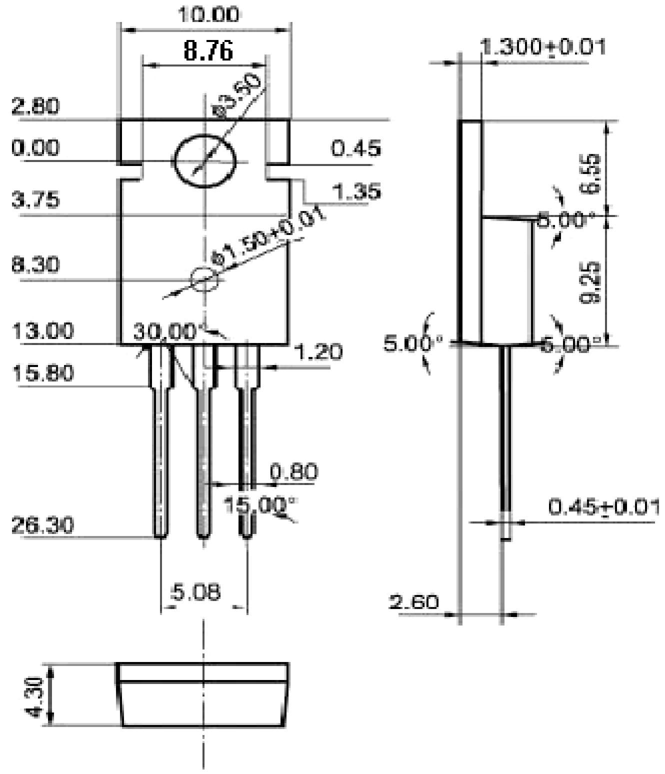

Fig.2 Outline dimensions(unindicated tolerance:±0.10 mm)