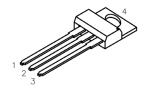
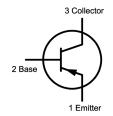
Medium Power Transistor multicomp





RoHS Compliant





Description:

The 2N6476, PNP General Purpose, medium power silicon transistor in a TO-220 type package designed for switching and amplifier applications. This devices is especially designed for series and shunt regulators and as a driver and output stage of high-fidelity amplifiers.

Features:

· Low Saturation Voltage

Maximum Ratings:

Characteristic	Symbol	Rating	Unit	
Collector-Base Voltage	V_{CBO}	400	V	
Collector-Emitter Voltage ($R_{BB} = 1\underline{\underline{\theta}}0\Omega$, $V_{BB} = 0$)	V _{CEX}	130		
Collector-Emitter Voltage	V_{CEO}	120]	
Emitter Base Current	V_{EBO}	5]	
Continuous Collector Current (T _C ≦ + 106°C)	I _C	4	А	
Continuous Base Current (T _C ≦ + 130°C)	Ι _Β	120	mA	
Total Device Dissipation -(T _C = +100°C), Derate Linearly Above 100°C		16 0.32		
Total Device Dissipation -(T _C = +25°C), Derate Linearly Above 25°C	P_{D}	40 0.32	W W/°C	
Total Device Dissipation -(T _A = +25°C), Derate Linearly Above 25°C		1.8 0.0144		
Operating Junction Temperature Range	T_{opr}	CE to 1450	°C	
Storage Temperature Range,	T _{stg}	-65 to +150		
Lead Temperature (During Soldering, 1/8" (3.17mm) from case, 10sec max)	T _L	+235	°C	

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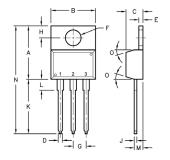


Electrical Characteristics: (T_C = +25°C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Max	Unit
	I _{CEO}	V _{CE} = 60V, I _B = 0		1	mA
		$V_{CE} = 120V, R_{BE} = 100\Omega$		0.1	
Collector Cutoff Current	I _{CER}	$V_{CE} = 120V, R_{BE} = 100\Omega, TC = +100^{\circ}C$		2	
	I _{CEX}	$V_{CE} = 120V, V_{BE} = -1.5V$		0.1	IIIA
		$V_{CE} = 120V, V_{BE} = -1.5V, TC = +100^{\circ}C$		2	
Emitter Cutoff Current	I _{EBO}	$V_{EB} = -5V$, $I_{C} = 0$		1	
Collector-Emitter Sustaining Voltage	$V_{CEO(SUS)}$ $I_C = 100mA, I_B = 0, (Note 2)$		120		V
Collector-Efflitter Sustaining Voltage	V _{CER(SUS)}	$R_{BE} = 100\Omega, I_{C} = 100 \text{mA}, \text{ (Note 2)}$	130		
DC Current Gain	h _{FE}	$I_{\rm C}$ = 1.5A, $V_{\rm CE}$ = 4V, (Note 1)	15	150	
De Guiteilt Gaiii		$I_{\rm C}$ = 4A, $V_{\rm CE}$ = 2.5V, (Note 1)	2	-	_
Base-Emitter Voltage	V _{BE(on)}	I _C = 1.5A, V _{CE} = 4V, (Note 1)		2	
Base-Effiller voltage		$I_{\rm C}$ = 4A, $V_{\rm CE}$ = 2.5V, (Note 1)		3.5] ,
Callactor Emitter Sustaining Valtage	\ \ \ \	I _C = 1.5A, I _B = 150mA, (Note 1)	_	1.2	\ \ \
Collector-Emitter Sustaining Voltage	V _{CE(Sat)}	$I_{C} = 4A, I_{B} = 2A, (Note 1)$		2.5	
Small-Signal Forward Current Transfer Ratio	h _{fe}	$V_{CE} = 4V, I_{C} = 500mA, f = 1MHz$			-
Gain bandwidth Product	f _T	$V_{CE} = 4V$, $I_{C} = 500$ mA			MHz
Collector -Base Capacitance	C _{obo}	$V_{CB} = 10V, I_{C} = 0, f = .1MHz$	-	250	pF

Note:

1. Pulse Width = 300µs, Duty Cycle ≦2%



Pin Configuration:

- 1. Base
- 2. Collector
- 3. Emitter
- 4. Collector

Dim	Α	В	С	D	E	F	G	Н	J	K	L	М	N	0
Min.	14.42	9.63	3.65	-	1.15	3.75	2.29	2.54	-	12.7	2.8	2.03	-	70
Max.	16.51	10.67	4.83	0.9	1.4	3.88	2.79	3.43	0.56	14.73	4.07	2.92	31.24	/

Dimensions: Millimetres

Part Number Table

Description	Part Number				
Transistor, PNP, 4A, 120V, TO-220	2N6476				

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