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مشهد خیام شمالی 63 خیابان پردیس 3

برای کسب اطلاعات بیشتر بر روی لینک ها کلیک کنید

- 7 سال سابقه آموزش تعمیرات تخصصی دستگاه های جوش اینورتری تک فاز و 3 فاز
- 7 سال سابقه فروش قطعات الکترونیکی دستگاه جوش تک فاز و 3 فاز
- آموزش تخصصی تحلیل دستگاه های جوش اینورتری مختص ابراز فروشان
- آموزش تخصصی ابراز آلات شارژی

TIP41A / TIP41B / TIP41C
NPN Epitaxial Silicon Transistor

Features

- Medium Power Linear Switching Applications
- Complement to TIP42 Series

Ordering Information

Part Number	Top Mark	Package	Packing Method
TIP41A	TIP41A	TO-220 3L (Single Gauge)	Bulk
TIP41B	TIP41B	TO-220 3L (Single Gauge)	Bulk
TIP41C	TIP41C	TO-220 3L (Single Gauge)	Bulk
TIP41CTU	TIP41C	TO-220 3L (Single Gauge)	Rail

Absolute Maximum Ratings

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be opera- ble above the recommended operating conditions and stressing the parts to these levels is not recommended. In addi- tion, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only. Values are at T_C = 25°C unless otherwise noted.

Symbol	Parameter		Value	Unit
V_{CBO}	Collector-Base Voltage	TIP41A	60	V
		TIP41B	80	
		TIP41C	100	
V_{CEO}	Collector-Emitter Voltage	TIP41A	60	V
		TIP41B	80	
		TIP41C	100	
V_{EBO}	Emitter-Base Voltage		5	V
I_C	Collector Current (DC)		6	A
I_{CP}	Collector Current (Pulse)		10	A
I_B	Base Current		2	A
T_J	Junction Temperature		150	°C
T_{STG}	Storage Temperature Range		-65 to 150	°C

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Publication Order Number:
TIP41C/D

Thermal Characteristics

Values are at T_C = 25°C unless otherwise noted.

Symbol	Parameter	Value	Unit
P_C	Collector Dissipation (T_C = 25°C)	65	W
	Collector Dissipation (T_A = 25°C)	2	

Electrical Characteristics

Values are at T_C = 25°C unless otherwise noted.

Symbol	Parameter		Conditions	Min.	Max.	Unit
V_{CEO}(sus)	Collector-Emitter Sustaining Voltage(1)	TIP41A	I_C = 30 mA, I_B = 0	60		V
		TIP41B		80		
		TIP41C		100		
I_{CEO}	Collector Cut-Off Current	TIP41A	V_{CE} = 30 V, I_B = 0		0.7	mA
		TIP41B / TIP41C	V_{CE} = 60 V, I_B = 0		0.7	
I_{CES}	Collector Cut-Off Current	TIP41A	V_{CE} = 60 V, V_{EB} = 0		400	μA
		TIP41B	V_{CE} = 80 V, V_{EB} = 0		400	
		TIP41C	V_{CE} = 100 V, V_{EB} = 0		400	
I_{EBO}	Emitter Cut-Off Current		V_{EB} = 5 V, I_C = 0		1	mA
h_{FE}	DC Current Gain(1)		V_{CE} = 4 V, I_C = 0.3 A	30		
			V_{CE} = 4 V, I_C = 3 A	15	75	
V_{CE}(sat)	Collector-Emitter Saturation Voltage(1)		I_C = 6 A, I_B = 600 mA		1.5	V
V_{BE}(on)	Base-Emitter On Voltage(1)		V_{CE} = 4 V, I_C = 6 A		2.0	V
f_T	Current Gain Bandwidth Product		V_{CE} = 10 V, I_C = 500 mA, f = 1 MHz	3.0		MHz

Note:

1. Pulse test: pw ≤ 300 μs, duty cycle ≤ 2%.

Typical Performance Characteristics

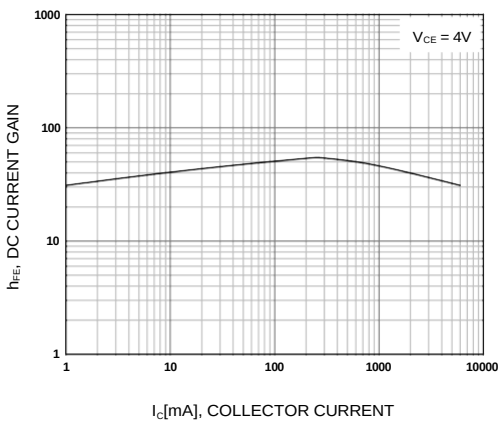

Figure 1. DC Current Gain

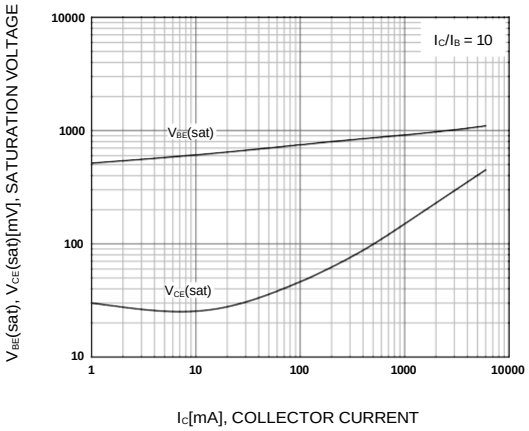

Figure 2. Base-Emitter Saturation Voltage and Collector-Emitter Saturation Voltage

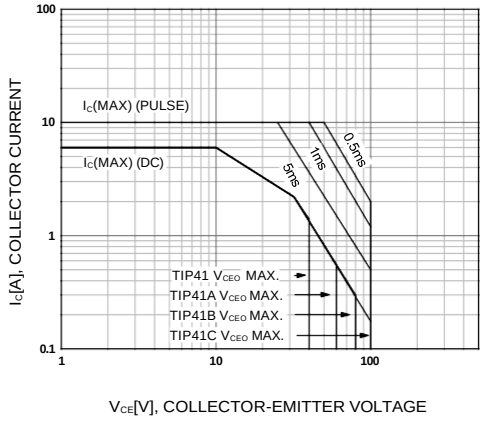

Figure 3. Safe Operating Area

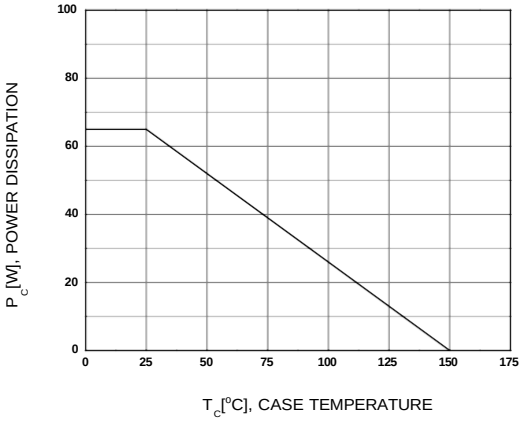

Figure 4. Power Derating

Physical Dimensions

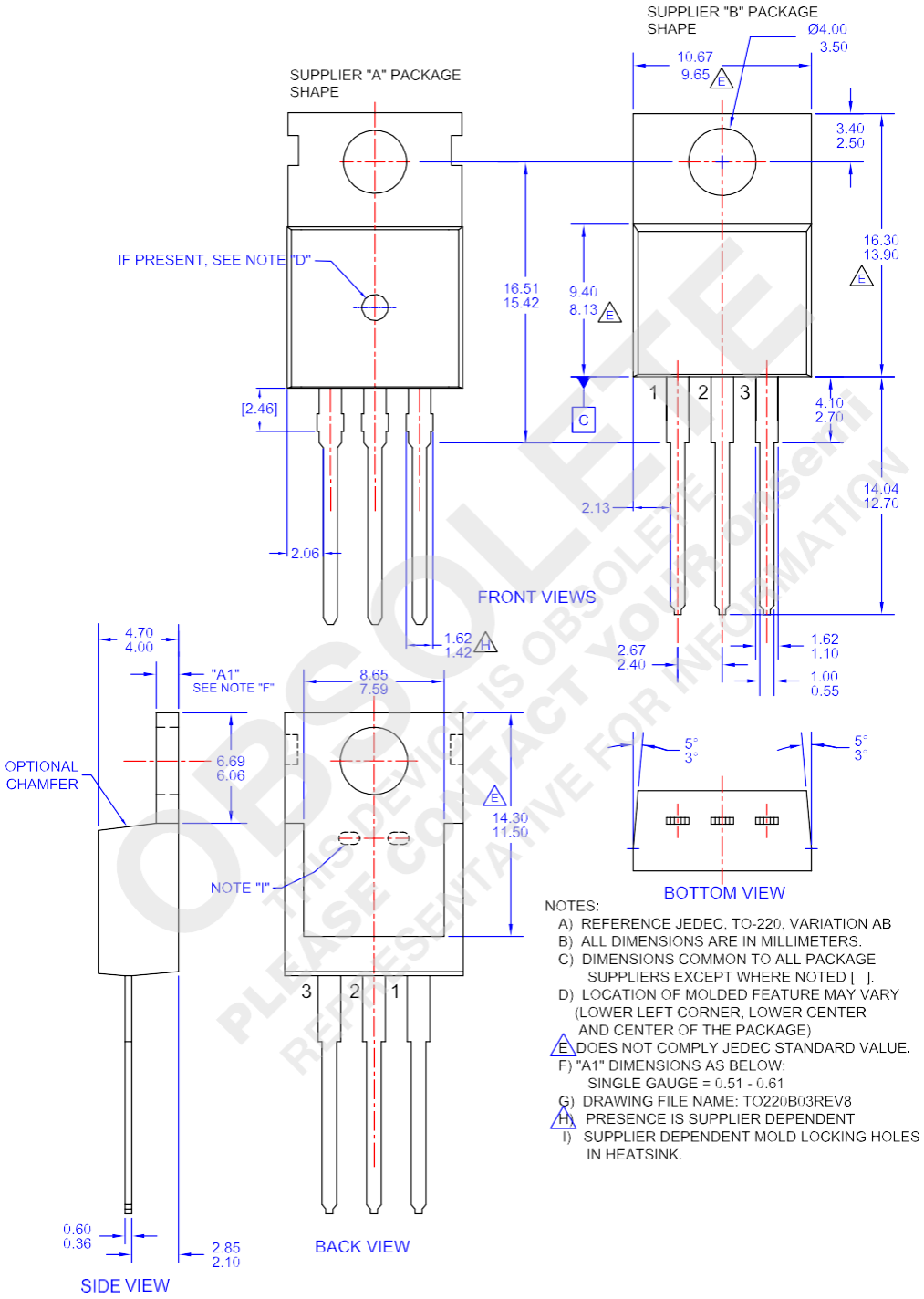

Figure 5. TO-220, MOLDED, 3LEAD, JEDEC VARIATION AB

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