

Excellent Integrated System Limited

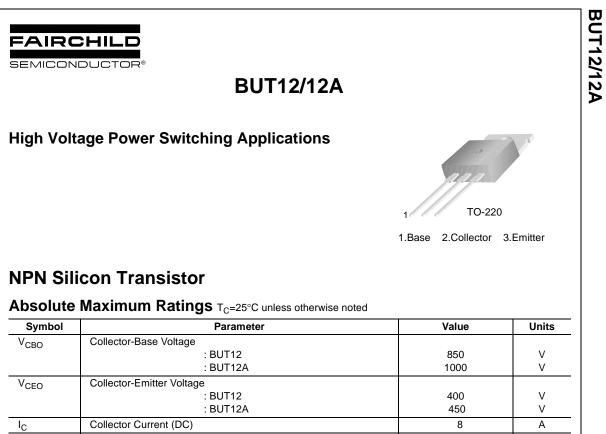
Stocking Distributor

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Fairchild Semiconductor BUT12A

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>





Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage		
	: BUT12	850	V
	: BUT12A	1000	V
V _{CEO}	Collector-Emitter Voltage		
	: BUT12	400	V
	: BUT12A	450	V
Ι _C	Collector Current (DC)	8	А
I _{CP}	*Collector Current (Pulse)	20	Α
I _B	Base Current	4	Α
P _C	Collector Dissipation (T _C =25°C)	100	W
Tj	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 65 ~ 175	°C

Electrical Characteristics $T_C=25^{\circ}C$ unless otherwise noted

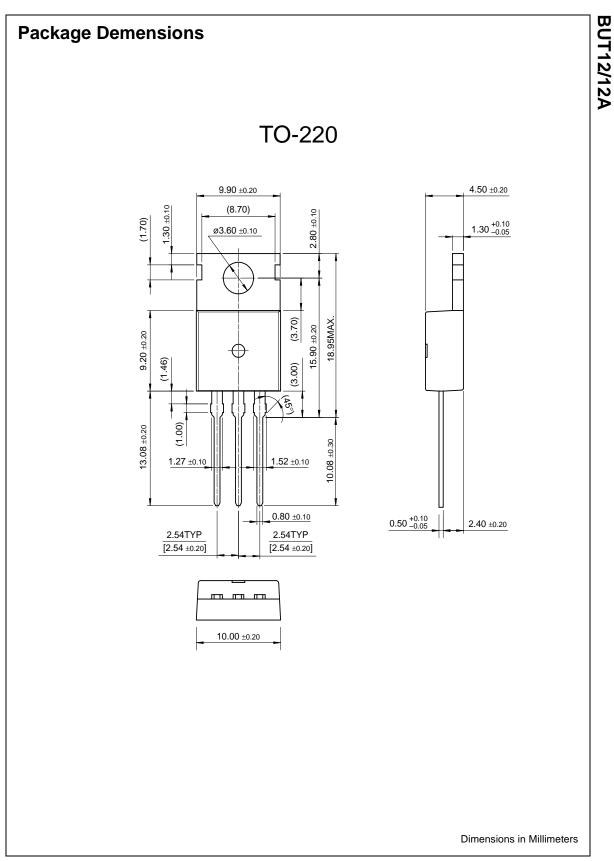
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
V _{CEO} (sus)	* Collector-Emitter Sustaining Voltage	I _C = 100mA, L = 25mH	400			V
I _{CES}	Collector Cut-off Current	$V_{CE} = V_{CES}, V_{BE} = 0$			1	mA
I _{EBO}	Emitter Cut-off Current	$V_{BE} = 9V, I_{C} = 0$			10	mA
V _{CE} (sat)	* Collector-Emitter Saturation Voltage	I _C = 6A, I _B = 1.2A			1.5	V
V _{BE} (sat)	* Base-Emitter Saturation Voltage	I _C = 6A, I _B = 1.2A			1.5	V
t _{ON}	Turn On Time	V _{CC} = 250V, I _C = 6A			1	μs
t _{STG}	Storage Time	I _{B1} = - I _{B2} = 1.2A			4	μs
t _F	Fall Time	$R_L = 41.6\Omega$			0.8	μs

* Pulsed Test: PW = 300µs, duty cycle = 1.5%

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Definition of Terms

Datasheet Identification	Product Status	Definition
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