

BU406/406H/408

High Voltage Switching

Use In Horizontal Deflection Output Stage



1.Base 2.Collector 3.Emitter

NPN Epitaxial Silicon Transistor

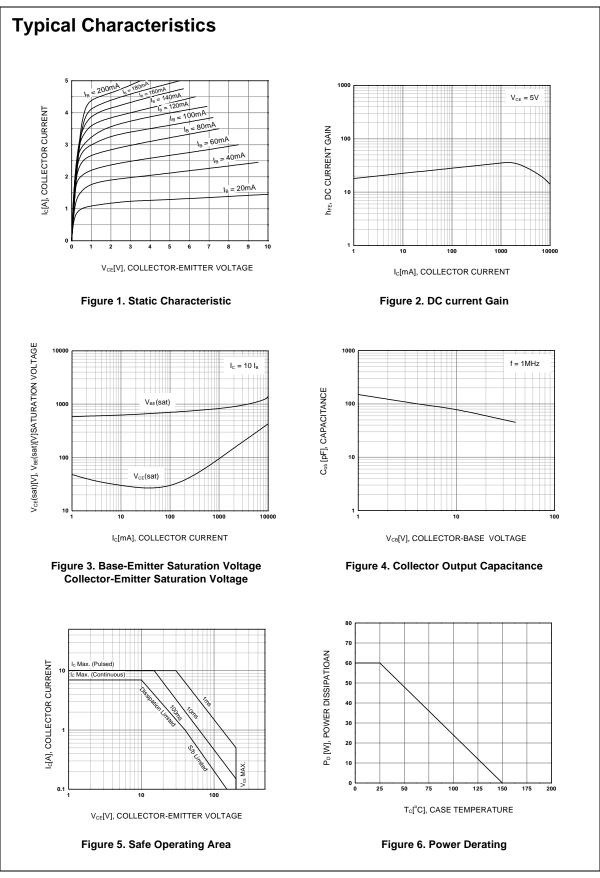
Absolute Maximum Ratings $T_C=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	400	V
V_{CEO}	Collector-Emitter Voltage	200	V
V _{EBO}	Emitter-Base Voltage	6	V
I _C	Collector Current (DC)	7	Α
I _{CP}	Collector Current (Pulse)	10	Α
I _B	Base Current	4	Α
P _C	Collector Dissipation	60	W
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 55 ~ 150	°C

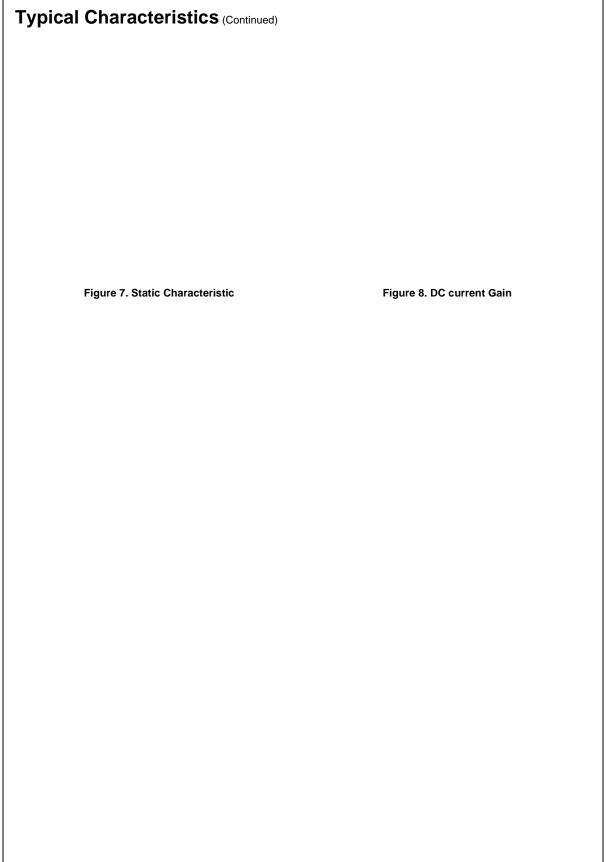
Electrical Characteristics T_C=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Max.	Units
I _{CES}	Collector Cut-off Current	$V_{CE} = 400V, V_{BE} = 0$		5	mA
		$V_{CE} = 250V, V_{BE} = 0$		100	μΑ
		$V_{CE} = 250V, V_{BE} = 0 @ T_{C} = 150^{\circ}C$		1	mA
I _{EBO}	Emitter Cut-off Current	$V_{BE} = 6V, I_{C} = 0$		1	mA
V _{CE} (sat)	Collector-Emitter Saturation Voltage				
	: BU406	$I_C = 5A, I_B = 0.5A$		1	V
	: BU406H	$I_C = 5A, I_B = 0.8A$		1	V
	: BU408	$I_C = 6A, I_B = 1.2A$		1	V
V _{BE} (sat)	Base-Emitter Saturation Voltage				
	: BU406	$I_C = 5A, I_B = 0.5A$		1.2	V
	: BU406H	$I_C = 5A, I_B = 0.5A$		1.2	V
	: BU408	$I_C = 6A, I_B = 1.2A$		1.5	V
f _T	Current Gain Bandwidth Product	$V_{CE} = 10V, I_{C} = 0.5A$	10		MHz
t _{OFF}	Turn OFF Time				
	: BU406	$I_C = 5A, I_B = 0.5A$		0.75	μs
	: BU406H	$I_C = 5A, I_B = 0.8A$		0.4	μs
	: BU408	$I_C = 6A, I_B = 1.2A$		0.4	μs

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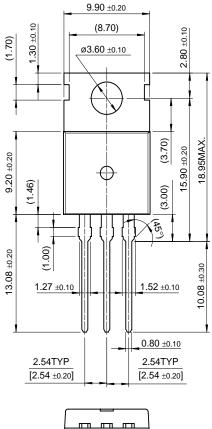
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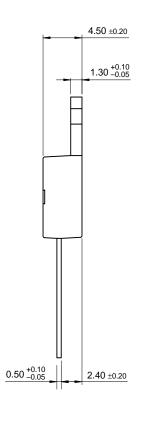


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Package Demensions

TO-220





10.00 ±0.20

Dimensions in Millimeters

Rev. A, February 2000

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