BU406/406H/408 — NPN Epitaxial Silicon Transistor

April 2012

Units
V
V
A
A
A
A
W

°C

°C



BU406/406H/408 NPN Epitaxial Silicon Transistor

Features

T_{STG}

- High Voltage Switching
- Use In Horizontal Deflection Output Stage



1.Base 2.Collector 3.Emitter

- 55 to 150

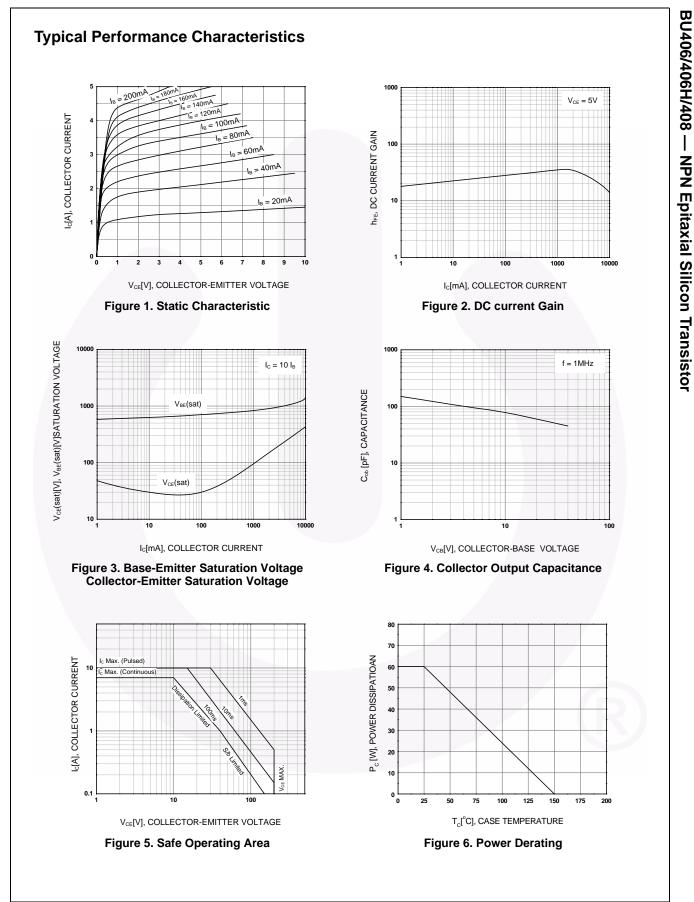
Absolute	DSOIUTE MAXIMUM RATINGS $T_{C} = 25^{\circ}C$ unless otherwise noted					
Symbol	Parameter		Value			
V _{CBO}	Collector-Base Voltage		400			
V _{CEO}	Collector-Emitter Voltage		200			
V _{EBO}	Emitter-Base Voltage		6			
۱ _C	Collector Current (DC)		7			
I _{CP}	Collector Current (Pulse)		10			
Ι _Β	Base Current		4			
P _C	Collector Dissipation		60			
TJ	Junction Temperature		150			

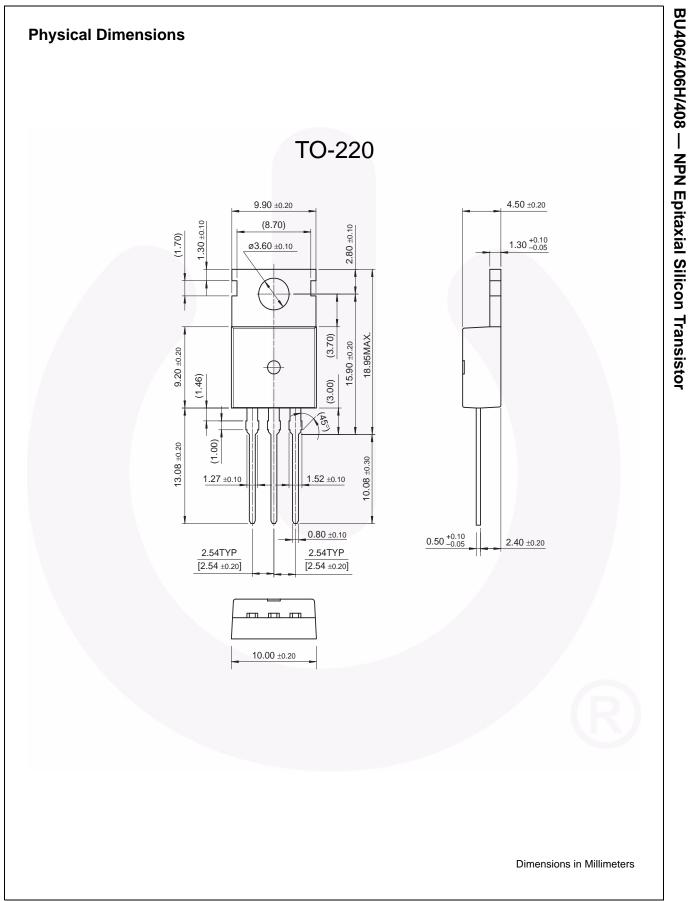
Absolute Maximum Ratings T_C = 25°C unless otherwise noted

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

Storage Temperature

Symbol	Parameter	Test Condition	Min.	Max.	Units
ICES	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	$I_{\rm C} = 5A, I_{\rm B} = 0.8A$		1	V
	: BU408	$I_{\rm C} = 6A, I_{\rm B} = 1.2A$		1	V
V _{BF} (sat)	Base-Emitter Saturation Voltage				\sim
	: BU406	I _C = 5A, I _B = 0.5A		1.2	V
	: BU406H	$I_{\rm C} = 5$ A, $I_{\rm B} = 0.5$ A		1.2	V
	: BU408	$I_{\rm C} = 6A, I_{\rm B} = 1.2A$		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	$I_{\rm C} = 5$ A, $I_{\rm B} = 0.8$ A		0.4	μs
	: BU408	I _C = 6A, I _B = 1.2A		0.4	μS





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