

# BU407/407H

# **High Voltage Switching**

Use In Horizontal Deflection Output Stage



1.Base 2.Collector 3.Emitter

# **NPN Epitaxial Silicon Transistor**

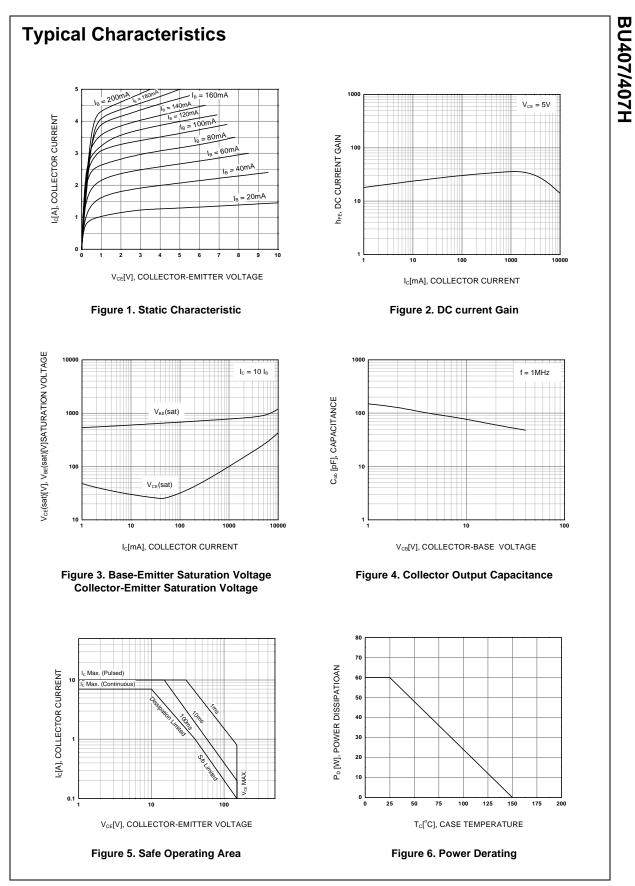
Absolute Maximum Ratings  $T_{C}=25^{\circ}C$  unless otherwise noted

Symbol	Parameter	Value	Units
V <sub>CBO</sub>	Collector-Base Voltage	330	V
V <sub>CEO</sub>	Collector-Emitter Voltage	150	V
V <sub>EBO</sub>	Emitter-Base Voltage	6	V
I <sub>C</sub>	Collector Current (DC)	7	А
I <sub>CP</sub>	Collector Current (Pulse)	10	А
I <sub>B</sub>	Base Current	4	А
P <sub>C</sub>	Collector Dissipation (T <sub>C</sub> =25°C)	60	W
TJ	Junction Temperature	150	°C
T <sub>STG</sub>	Storage Temperature	- 65 ~ 150	°C

# Electrical Characteristics ${\rm T_{C}=25^{\circ}C}$ unless otherwise noted

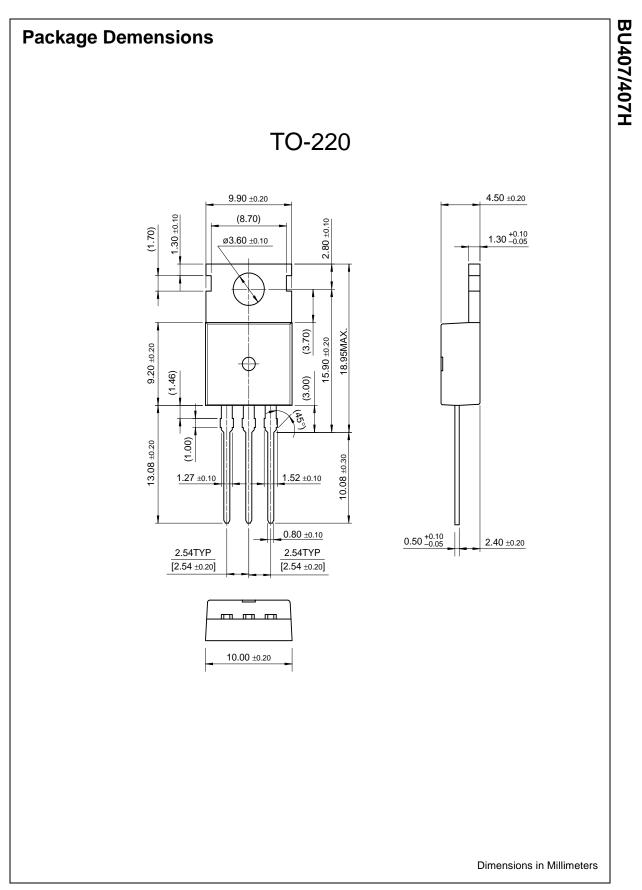
Symbol	Parameter	Test Condition	Min.	Max.	Units
ICES	Collector Cut-off Current	V <sub>CE</sub> = 330V, V <sub>BE</sub> = 0		5	mA
		$V_{CE} = 200V, V_{BE} = 0$		100	μΑ
		$V_{CE} = 200V, V_{BE} = 0 @ T_{C} = 150^{\circ}C$		1	mA
I <sub>EBO</sub>	Emitter Cut-off Current	$V_{BE} = 6V, I_{C} = 0$		1	mA
V <sub>CE</sub> (sat)	Collector-Emitter Saturation Voltage				
	: BU407	I <sub>C</sub> = 5A, I <sub>B</sub> = 0.5A		1	V
	: BU407H	$I_{\rm C} = 5$ A, $I_{\rm B} = 0.8$ A		1	V
V <sub>BE</sub> (sat)	Base-Emitter Saturation Voltage				
	: BU407	I <sub>C</sub> = 5A, I <sub>B</sub> = 0.5A		1.2	V
	: BU407H	$I_{\rm C} = 5$ A, $I_{\rm B} = 0.8$ A		1.2	V
f <sub>T</sub>	Current Gain Bandwidth Product	$V_{CE} = 10V, I_{C} = 0.5A$	10		MHz
t <sub>OFF</sub>	Turn OFF Time				
	: BU407	I <sub>C</sub> = 5A, I <sub>B</sub> = 0.5A		0.75	μs
	: BU407H	$I_{\rm C} = 5$ A, $I_{\rm B} = 0.5$ A $I_{\rm C} = 5$ A, $I_{\rm B} = 0.8$ A		0.4	μs

# BU407/407H



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Product status/pricing/packaging

Product	Product status	Pricing*	Package type	Leads	Packing method
BU407HTU	Full Production	\$0.474	TO-220	3	RAIL

\* 1,000 piece Budgetary Pricing

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