

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°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	330	V
V _{CEO}	Collector-Emitter Voltage	150	V
V _{EBO}	Emitter-Base Voltage	6	V
I _C	Collector Current (DC)	7	А
I _{CP}	Collector Current (Pulse)	10	Α
I _B	Base Current	4	Α
P _C	Collector Dissipation (T _C =25°C)	60	W
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 65 ~ 150	°C

Electrical Characteristics T_C=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Max.	Units
I _{CES}	Collector Cut-off Current	$V_{CE} = 330V, V_{BE} = 0$		5	mA
	The MAN W. C.	$V_{CE} = 200 V, V_{BE} = 0$		100	μΑ
	ALC: NO.	$V_{CE} = 200V, V_{BE} = 0 @ T_{C} = 150^{\circ}C$		1	mA
I _{EBO}	Emitter Cut-off Current	$V_{BE} = 6V, I_{C} = 0$		1	mA
V _{CE} (sat)	Collector-Emitter Saturation Voltage				7 A 111
	: BU407	$I_C = 5A, I_B = 0.5A$		1	V
	: BU407H	$I_C = 5A, I_B = 0.8A$	29.11	1	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	4 4 4 4 5 6 7 7	Take N	4:05	
	: BU407	$I_C = 5A, I_B = 0.5A$	All AL.	1.2	V
	: BU407H	$I_C = 5A, I_B = 0.8A$		1.2	V
f _T	Current Gain Bandwidth Product	$V_{CE} = 10V, I_{C} = 0.5A$	10		MHz
t _{OFF}	Turn OFF Time				
-	: BU407	$I_C = 5A, I_B = 0.5A$		0.75	μs
	: BU407H	$I_C = 5A$, $I_B = 0.8A$		0.4	μs

Typical Characteristics

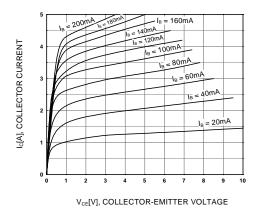


Figure 1. Static Characteristic

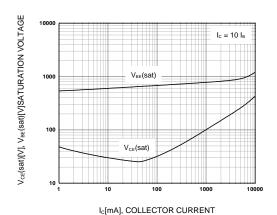


Figure 3. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

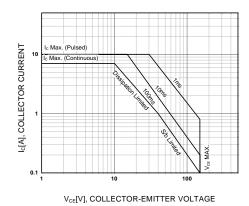


Figure 5. Safe Operating Area

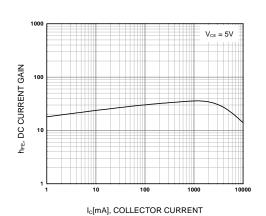


Figure 2. DC current Gain

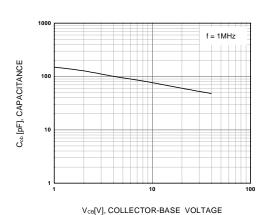


Figure 4. Collector Output Capacitance

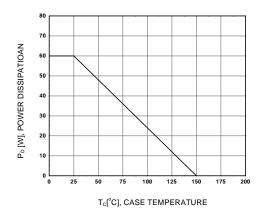
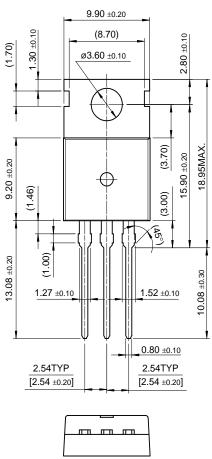


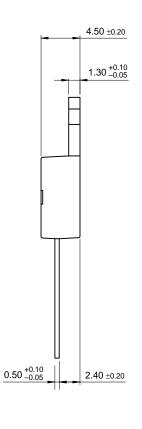
Figure 6. Power Derating

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Package Demensions

TO-220





10.00 ±0.20

Dimensions in Millimeters

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