BU806

ELECTRICAL CHARACTERISTICS (T_C = 25°C unless otherwise noted)

Characteristic		Symbol	Min	Тур	Max	Unit
OFF CHARACTERIS	STICS	<u> </u>				
Collector–Emitter Sustaining Voltage (1) (I _C = 100 mAdc, I _B = 0)		V _{CEO(sus)}	200	_	_	Vdc
Collector Cutoff Current $(V_{CE} = Rated V_{CBO}, V_{BE} = 0)$		I _{CES}	_	_	100	μAdc
Collector Cutoff Current $(V_{CE} = Rated V_{CEV}, V_{BE(off)} = 6.0 \text{ Vdc})$		I _{CEV}	_	_	100	μAdc
Emitter Cutoff Current $(V_{EB} = 6.0 \text{ Vdc}, I_C = 0)$		I _{EBO}	_	_	3.0	mAdc
ON CHARACTERIST	TICS (1)				_	
Collector–Emitter Saturation Voltage (I _C = 5.0 Adc, I _B = 50 mAdc)		V _{CE(sat)}	_	_	1.5	Vdc
Base–Emitter Saturation Voltage ($I_C = 5.0$ Adc, $I_B = 50$ mAdc)		V _{BE(sat)}	_	_	2.4	Vdc
Emitter–Collector Diode Forward Voltage (I _F = 4.0 Adc)		V _F	_	_	2.0	Vdc
SWITCHING CHARA	ACTERISTICS					
Turn-On Time	(Resistive Load, V _{CC} = 100 Vdc,	t _{on}	_	0.35	_	μs
Storage Time	$I_C = 5.0 \text{ Adc}, I_{B1} = 50 \text{ mAdc},$	t _s	_	0.55	_	μs
Fall Time	$I_{B2} = 500 \text{ mAdc}$	t _f	_	0.20	_	μs
Crossover Time (I _C = 5.0 Adc, I _{B1} = 50 mAdc, V _{BE(off)} = 4.0 Vdc, V _{clamp} = 200 Vdc, L = 500 μ H)		t _c	_	0.40	1.0	μs

⁽¹⁾ Pulse Test: Pulse Width \leq 300 μ s, Duty Cycle \leq 1%.

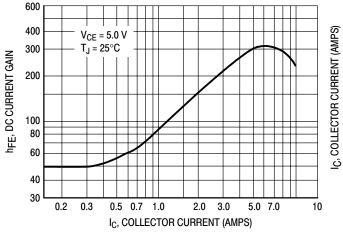


Figure 1. DC Current Gain

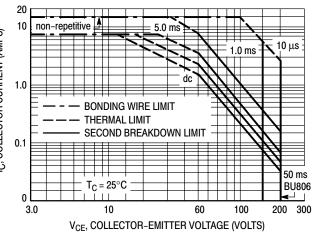
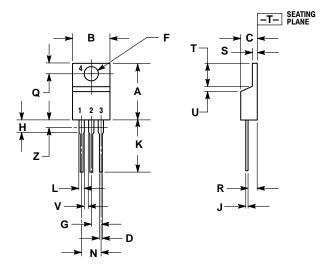


Figure 2. Safe Operating Area (FBSOA)

BU806

PACKAGE DIMENSIONS

TO-220AB CASE 221A-09 ISSUE AA



- NOTES:
 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
 2. CONTROLLING DIMENSION: INCH.
 3. DIMENSION Z DEFINES A ZONE WHERE ALL BODY AND LEAD IRREGULARITIES ARE ALLOWED.

	INCHES		MILLIMETERS		
DIM	MIN	MAX	MIN	MAX	
Α	0.570	0.620	14.48	15.75	
В	0.380	0.405	9.66	10.28	
C	0.160	0.190	4.07	4.82	
D	0.025	0.035	0.64	0.88	
F	0.142	0.147	3.61	3.73	
G	0.095	0.105	2.42	2.66	
Н	0.110	0.155	2.80	3.93	
7	0.018	0.025	0.46	0.64	
K	0.500	0.562	12.70	14.27	
L	0.045	0.060	1.15	1.52	
N	0.190	0.210	4.83	5.33	
Q	0.100	0.120	2.54	3.04	
R	0.080	0.110	2.04	2.79	
S	0.045	0.055	1.15	1.39	
Т	0.235	0.255	5.97	6.47	
5	0.000	0.050	0.00	1.27	
٧	0.045		1.15		
Z		0.080		2.04	

BU806

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JAPAN: ON Semiconductor, Japan Customer Focus Center

4-32-1 Nishi-Gotanda, Shinagawa-ku, Tokyo, Japan 141-0031

Phone: 81-3-5740-2700 Email: r14525@onsemi.com

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