Central TM Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

BU406 BU407 BU408

NPN SILICON POWER TRANSISTOR

JEDEC TO-220 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR BU406 Series types are Silicon NPN High Voltage Power Transistors designed for fast swtiching, horizontal deflection output stages of monitors.

MAXIMUM RATINGS (T_C=25°C unless otherwise noted)

	SYMBOL	BU406	BU407	BU408	UNIT
Collector Base Voltage	V _{CBO}	400	330	400	V
Collector Emitter Voltage	VCES	400	330	400	٧
Collector Emitter Voltage	VCEO	200	150	200	V
Emitter Base Voltage	VEBO		6.0		V
Collector Current	1 _C		7.0		Α
Collector Current (PEAK)	ICM		15		Α
Base Current	1 _B		4.0		Α
Power Dissipation	P_{D}		60		W
Operating and Storage					
Junction Temperature	T_J, T_{STG}		-65 TO +150		°C
Thermal Resistance	ΘJC		2.08		°C/W
Thermal Resistance	⊝JA		70		°C/W

 $\underline{\text{ELECTRICAL CHARACTERISTICS}} \text{ (T_{C}=25°C unless otherwise noted)}$

SYMBOL	TEST CONDITIONS	BU406 MIN MAX	BU407 MIN MAX	BU408 MIN MAX	UNIT
ICES	V _{CF} =Rated V _{CFS}	5.0	5.0		mA
CES	V _{CE} =250V (406, 408), V _{CE} =200V(407)	0.1	0.1		mA
ICES	$V_{CE}=250V$ (406, 408), $V_{CE}=200V$ (407), $T_{C}=150^{\circ}C$	1.0	1.0	1.0	mΑ
^I EBO	V _{EB} =6.0V	1.0	1.0	1.0	mΑ
V _{CE} (S)	I _C =5.0A, I _B =0.5A	1.0	1.0	-	٧
VCE(S)	Ic=6.0A, IB=1.2A	-		1.0	V
VBE(S)	I _C =5.0A, I _B =0.5A	1.2	1.2	-	V
VBE(S)	I _C =6.0A, I _B =1.2A	_	-	1.5	٧
f _T	$V_{CE}=10V$, $I_{C}=0.5A$, $f=1.0MHz$	10	10	10 M	Hz
tf	$V_{CC}=40V$, $I_{C}=5.0A$, $I_{B}=0.5A$	0.75	0.75	.	μs
tf	VCC=40V, IC=6.0A, IB=1.2A	- ;	00710	0.4	μ <u>s</u>
Сор	$V_{CB}=10V$, $I_{E}=0$, $f=1.0MHz$	80TYP	80TYP		pΕ
l _s /b	V _{CE} =10V, t=1.0 sec	6.0TYP	6.OTYP=	6.0TYP	A



OUTSTANDING SUPPORT AND SUPERIOR SERVICES

PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- · Inventory bonding
- · Consolidated shipping options

- Custom bar coding for shipments
- · Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- · Online technical data and parametric search
- SPICE models
- · Custom electrical curves
- · Environmental regulation compliance
- · Customer specific screening
- · Up-screening capabilities

- Special wafer diffusions
- · PbSn plating options
- · Package details
- · Application notes
- · Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

Corporate Headquarters & Customer Support Team

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