2N3789 2N3791 2N3790 2N3792

SILICON PNP POWER TRANSISTORS



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N3789, 2N3790, 2N3791, and 2N3792 are silicon PNP power transistors, manufactured by the epitaxial planar process, designed for medium speed switching and amplifier applications.

MARKING: FULL PART NUMBER



MAXIMUM RATINGS: (T _C =25°C) Collector-Base Voltage	SYMBOL VCBO	2N3789 2N3791 60	2N3790 2N3792 80	UNITS V
Collector-Emitter Voltage	V_{CEO}	60	80	V
Emitter-Base Voltage	V_{EBO}	7	.0	V
Continuous Collector Current	I_{C}	10		Α
Continuous Base Current	ΙΒ	4.0		Α
Power Dissipation	P_{D}	1	50	W
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to	+200	°C
Thermal Resistance	ΘJC	1.	17	°C/W

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

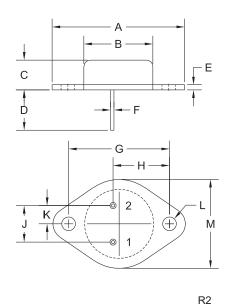
		2N3789 2N3791			2N3790 2N3792	
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	UNITS
I _{CEV}	V _{CE} =Rated V _{CEO} , V _{EB} =1.5V	-	1.0	-	1.0	mA
ICEV	V_{CE} =Rated V_{CEO} , V_{EB} =1.5V, T_{C} =150°C	-	5.0	-	5.0	mA
I _{EBO}	V _{EB} =7.0V	-	5.0	-	5.0	mA
BV_{CEO}	I _C =200mA	60	-	80	-	V
V _{CE(SAT)}	I _C =4.0A, I _B =400mA (2N3789, 2N3790)	-	1.0	-	1.0	V
VCE(SAT)	I _C =5.0A, I _B =500mA (2N3791, 2N3792)	-	1.0	-	1.0	V
V _{BE(ON)}	V _{CE} =2.0V, I _C =5.0A (2N3789, 2N3790)	-	2.0	-	2.0	V
V _{BE(ON)}	V _{CE} =2.0V, I _C =5.0A (2N3791, 2N3792)	-	1.8	-	1.8	V
V _{BE(ON)}	V _{CE} =4.0V, I _C =10A	-	4.0	-	4.0	V
hFE	V _{CE} =2.0V, I _C =1.0A (2N3789, 2N3790)	25	90	25	90	
h _{FE}	V _{CE} =2.0V, I _C =1.0A (2N3791, 2N3792)	50	180	50	180	
hFE	V _{CE} =2.0V, I _C =3.0A (2N3789, 2N3790)	15	-	15	-	
hFE	V _{CE} =2.0V, I _C =3.0A (2N3791, 2N3792)	30	-	30	-	
f_{T}	V_{CE} =10V, I_{C} =500mA, f=1.0MHz	4.0	-	4.0	-	MHz

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TO-3 CASE - MECHANICAL OUTLINE



DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
Α	1.516	1.573	38.50	39.96		
B (DIA)	0.748	0.875	19.00	22.23		
С	0.250	0.450	6.35	11.43		
D	0.433	0.516	11.00	13.10		
Е	0.054	0.065	1.38	1.65		
F	0.035	0.045	0.90	1.15		
G	1.177	1.197	29.90	30.40		
Н	0.650	0.681	16.50	17.30		
J	0.420	0.440	10.67	11.18		
K	0.205	0.225	5.21	5.72		
L (DIA)	0.151	0.172	3.84	4.36		
М	0.984	1.050	25.00	26.67		

TO-3 (REV: R2)

LEAD CODE:

- 1) Base
- 2) Emitter

Case) Collector

MARKING:

FULL PART NUMBER

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

CONTACT US

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