MPS4992

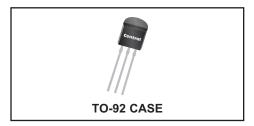
SILICON BI-DIRECTIONAL SWITCH



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR MPS4992 is a silicon bi-directional switch designed for full-wave TRIAC and half-wave SCR triggering applications.



MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T_A=25°C unless otherwise noted)

` ' ' ' '	SYMBOL		UNITS
DC Forward Current	Ι _F	200	mA
Peak Repetitive Forward Current (T _A =100°C)			
(1% Duty Cycle, tp=10µs)	I _{FM}	2.0	Α
DC Gate Current (off-state)	I_{G}	5.0	mA
Power Dissipation	P_{D}	500	mW
Operating Junction Temperature	T_J	-55 to +125	°C
Storage Temperature	T _{sta}	-65 to +150	°C

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

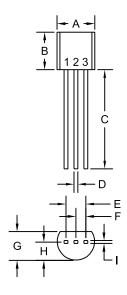
CHARACTERISTIC	SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
Switching Voltage	V_S		7.5	9.0	V
Switching Current	I_S			120	μΑ
Holding Current	Ι _Η			500	μΑ
Off-state Blocking Current	I_{B}	V _F =5.0V		0.1	μΑ
Forward Voltage	V_{F}	I _F =200mA		1.7	V

MPS4992

SILICON **BI-DIRECTIONAL SWITCH**



TO-92 CASE - MECHANICAL OUTLINE



DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
A (DIA)	0.175	0.205	4.45	5.21		
В	0.170	0.210	4.32	5.33		
С	0.500	ı	12.70	-		
D	0.016	0.022	0.41	0.56		
Е	0.100		2.54			
F	0.050		1.27			
G	0.125	0.165	3.18	4.19		
Н	0.080	0.105	2.03	2.67		
	0.015		0.38			

TO-92 (REV: R1)

LEAD CODE: 1) MT1 2) Gate 3) MT2

R1

MARKING: FULL PART NUMBER

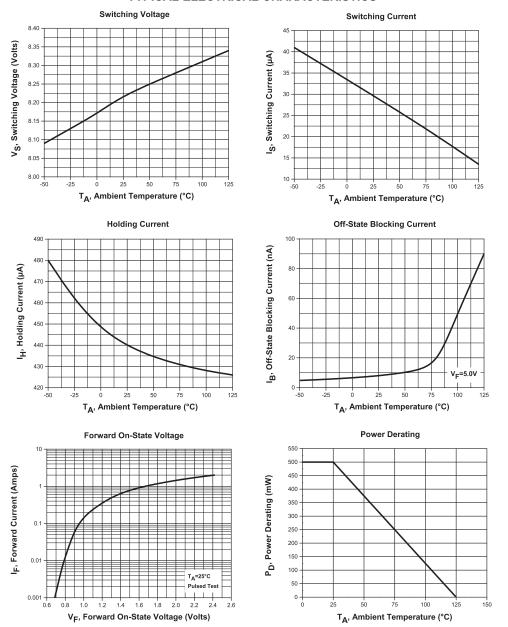
MPS4992

SILICON BI-DIRECTIONAL SWITCH



R3 (16-April 2013)

TYPICAL ELECTRICAL CHARACTERISTICS



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 guick 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

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