

Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMOTVS5V7 is a Transient Voltage Suppressor (TVS) with exceptionally low leakage current characteristics. Packaged in the SOD-523 surface mount case, this space saving device is designed to protect sensitive equipment against ESD damage.

MARKING CODE: 57

APPLICATIONS:

- User interface protection
- Power rail protection
- Voltage clamping

- FEATURES:
- Low leakage current
- Space saving SOD-523 package

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Peak Power Dissipation (8x20µs)	^Р РК	66	W
Electrical Fast Transient (IEC 61000-4-4) (5x50ns)	EFT	40	А
ESD Voltage (IEC 61000-4-2, Air)	VESD	15	kV
ESD Voltage (IEC 61000-4-2, Contact)	VESD	8.0	kV
Operating and Storage Junction Temperature	TJ, T _{stg}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS: (T_A=25°C) V_F=1.2V MAX @ I_F=20mA

Maximum Reverse Stand-off Voltage		down tage	Test Current	Maximum Reverse Leakage Current	Clam Volt	Maximum Typical Clamping TLP Clamping Voltage Voltage (8x20μs) (Note 1)		Typical Dynamic Resistance (Note 1)	Typical Junction Capacitance @ 0V Bias	
VRWM	VBR	@ I _T	ΙŢ	IR @ VRWM	V _C @	ĵ∂ I _{PP}	V _{CL} @ I _{PP}		R _{DYN}	CJ
v	MIN V	MAX V	mA	μA	v	А	v	А	Ω	pF
4.0	5.7	6.7	5.0	0.1	12	5.5	3.0	4.9	0.53	35
4.0 5.7 6.7	5.0	0.1	12	5.5	6.0	10.5	0.00	35		

Note 1: Transmission Line Pulse (TLP) conditions: $Z_0=50\Omega$, tp=100ns

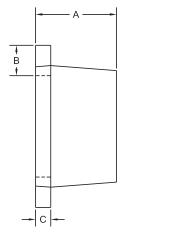
R4 (20-October 2015)



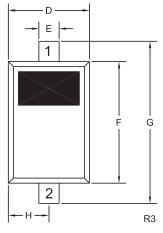
CMOTVS5V7

SURFACE MOUNT SILICON UNI-DIRECTIONAL TRANSIENT VOLTAGE SUPPRESSOR

SOD-523 CASE - MECHANICAL OUTLINE



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LEAD CODE:				
1) Cathode				
2) Anode				

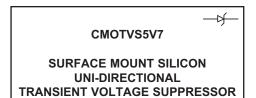
MARKING CODE: 57

DIMENSIONS				
	INCHES		MILLIM	ETERS
SYMBOL	MIN	MAX	MIN	MAX
А	0.020	0.031	0.50	0.80
В	800.0	0.016	0.20	0.40
С	0.002	0.008	0.05	0.20
D	0.028	0.035	0.70	0.90
E	800.0	0.014	0.20	0.35
F	0.039	0.055	1.00	1.40
G	0.055	0.071	1.40	1.80
Н	0.016		0.4	40

SOD-523 (REV: R3)

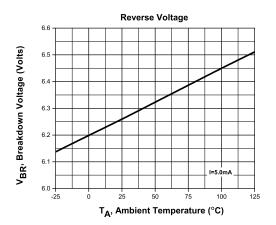
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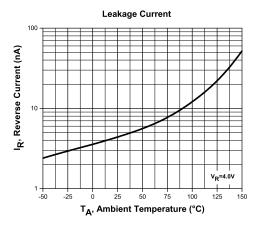
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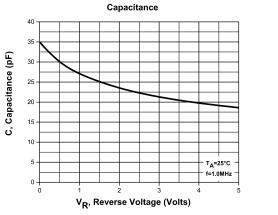




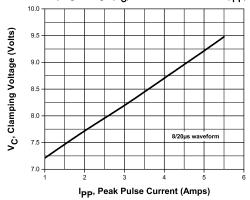
TYPICAL ELECTRICAL CHARACTERISTICS











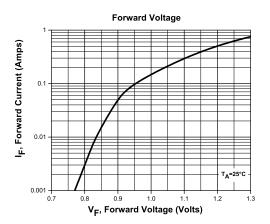
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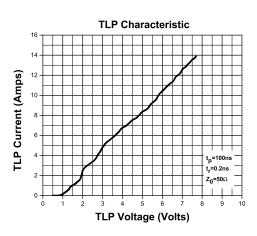
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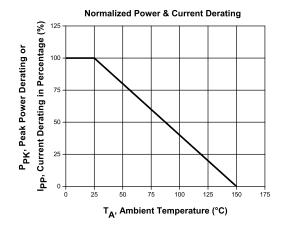


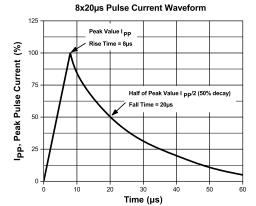


TYPICAL ELECTRICAL CHARACTERISTICS









R4 (20-October 2015)

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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

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

· Custom product packing

Custom bar coding for shipments

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

REQUESTING PRODUCT PLATING

- If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 1. 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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