CMOTVS5V7

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SURFACE MOUNT SILICON UNI-DIRECTIONAL TRANSIENT VOLTAGE SUPPRESSOR



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



SOD-523 CASE

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)	P_{PK}	66	W
Electrical Fast Transient (IEC 61000-4-4) (5x50ns)	EFT	40	Α
ESD Voltage (IEC 61000-4-2, Air)	V_{ESD}	15	kV
ESD Voltage (IEC 61000-4-2, Contact)	V_{ESD}	8.0	kV
Operating and Storage Junction Temperature	T _J , T _{stq}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS: (TA=25°C) VF=1.2V MAX @ IF=20mA

Maximum Reverse Stand-off Voltage VRWM		down tage	Test Current	Maximum Reverse Leakage Current I _R @ V _{RWM}	Clam Voli (8x2	mum nping tage 0µs) ① Ipp	TLP Cla Volt (Not	ical amping age te 1)	Typical Dynamic Resistance (Note 1) RDYN	Typical Junction Capacitance @ 0V Bias CJ
V	MIN V	MAX V	mA	μA	V	A	V	A	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	0.7	.7 5.0	0.1	12	ე.5	6.0	10.5	0.55	33	

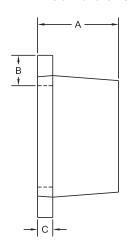
Note 1: Transmission Line Pulse (TLP) conditions: Z_0 =50 Ω , tp=100ns

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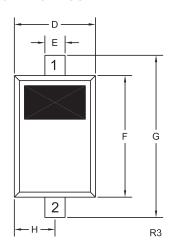


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SOD-523 CASE - MECHANICAL OUTLINE



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LEAD CODE:

- 1) Cathode 2) Anode
- **MARKING CODE: 57**

DIMENSIONS					
	INCHES		MILLIMETERS		
SYMBOL	MIN	MAX	MIN	MAX	
Α	0.020	0.031	0.50	0.80	
В	0.008	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	0.008	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		0.40		
SOD-523 (REV: R3)					

R4 (20-October 2015)

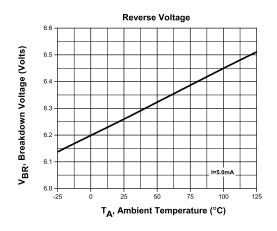


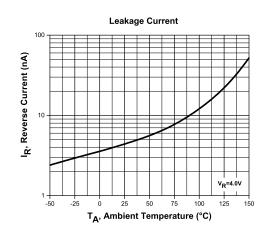
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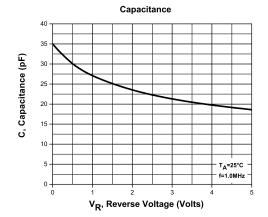


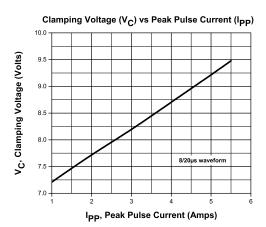
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TYPICAL ELECTRICAL CHARACTERISTICS









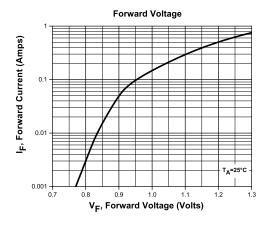


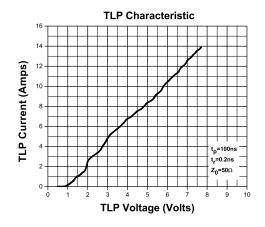
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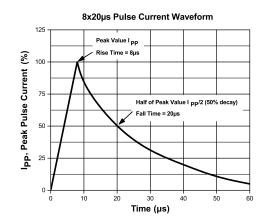


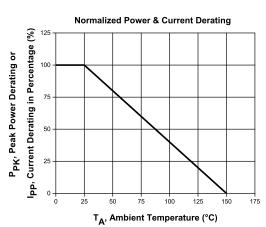
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TYPICAL ELECTRICAL CHARACTERISTICS









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.

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- · Customer specific screening
- · Up-screening capabilities

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- · Application notes
- · Application and design sample kits
- · Custom product and package development

CONTACT US

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA

Main Tel: (631) 435-1110 Main Fax: (631) 435-1824

Support Team Fax: (631) 435-3388

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