

CMOTVS5V7
SURFACE MOUNT SILICON
TRANSIENT VOLTAGE SUPPRESSOR



www.centrasemi.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: ($T_A=25^\circ\text{C}$)

Peak Power Dissipation (8x20 μs)
 ESD Voltage (IEC 61000-4-2, Air)
 ESD Voltage (IEC 61000-4-2, Contact)
 Operating and Storage Junction Temperature

SYMBOL

P_{PK} 66
 V_{ESD} 15
 V_{ESD} 8.0
 T_J, T_{stg} -55 to +150

UNITS

W
 kV
 kV
 $^\circ\text{C}$

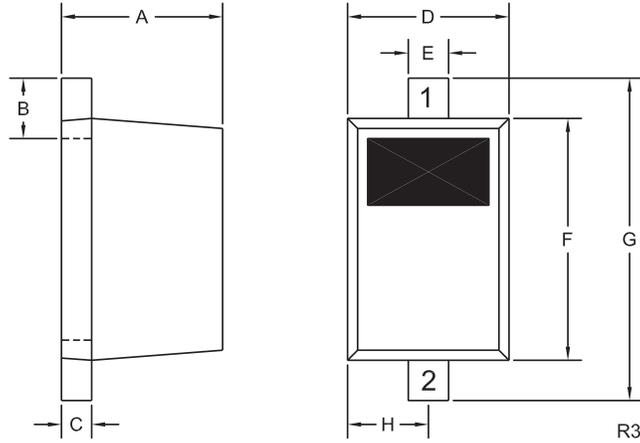
ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$) $V_F=1.2\text{V MAX @ } I_F=20\text{mA}$

Maximum Reverse Stand-off Voltage V_{RWM}	Breakdown Voltage		Test Current I_T	Maximum Reverse Leakage Current $I_R @ V_{RWM}$	Maximum Clamping Voltage $V_C @ I_{PP}$	Peak Pulse Current I_{PP}	Typical Junction Capacitance @ 0V Bias C_J
	MIN V	MAX V					
V	MIN V	MAX V	mA	μA	V	A	pF
4.0	5.7	6.7	5.0	0.1	12	5.5	35

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SOD-523 CASE - MECHANICAL OUTLINE



LEAD CODE:

- 1) Cathode
- 2) Anode

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SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.020	0.031	0.50	0.80
B	0.008	0.016	0.20	0.40
C	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
H	0.016		0.40	

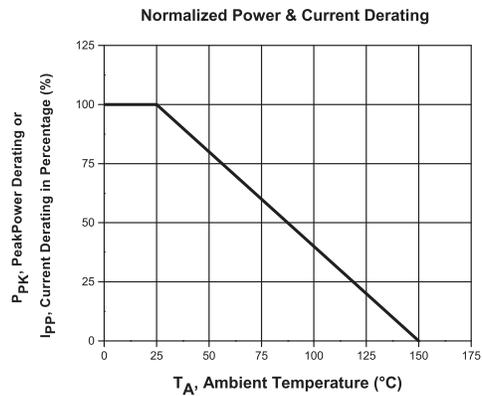
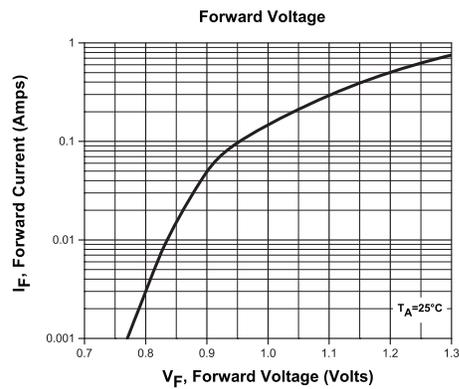
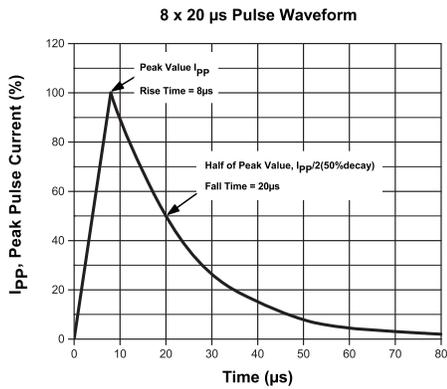
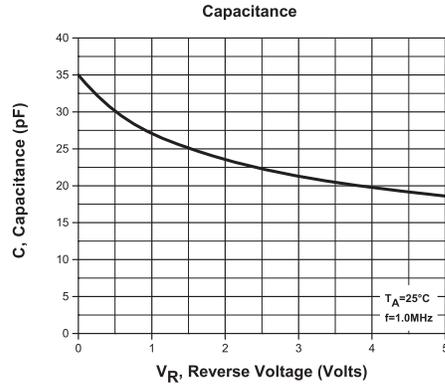
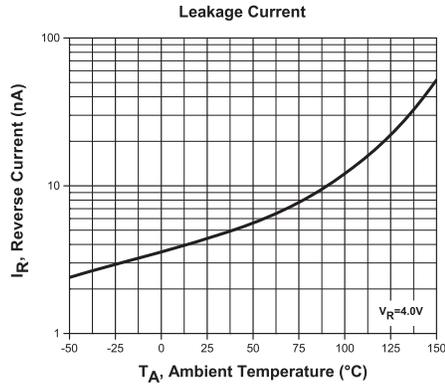
SOD-523 (REV: R3)

R3 (2-April 2015)

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TYPICAL ELECTRICAL CHARACTERISTICS



R3 (2-April 2015)

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SERVICES

- Bonded Inventory
- Custom Electrical Screening
- Custom Electrical Characteristic Curves
- SPICE Models
- Custom Packaging
- Package Base Options
- Custom Device Development/ Multi Discrete Modules (MDM™)
- Bare Die Available for Hybrid Applications

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R3 (2-April 2015)