

SURFACE MOUNT ULTRA LOW LEAKAGE SILICON SWITCHING DIODES



 $V_R=0$, f=1.0MHz

 $I_R=I_F=10mA$, $I_{rr}=1.0mA$, $R_L=100\Omega$

CT

t_{rr}

• Device is *Halogen Free* by design

Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMSD6001 SERIES are silicon switching diodes manufactured by the epitaxial planar process, epoxy molded in a SUPERmini[™] surface mount package, designed for switching applications requiring an extremely low leakage diode.

2.0

3.0

CMSD6001	: SINGLE A: DUAL, COMMON ANODE C: DUAL, COMMON CATHODE S: DUAL, IN-SERIES	MARKING CO MARKING CO MARKING CO MARKING CO	DDE: 61A DDE: 61C		
	ATINGS: (T _A =25°C)	SYMBOL		UNITS	
Continuous I	Reverse Voltage	VR	75	V	
Peak Repetitive Reverse Voltage		V _{RRM}	100	V	
Continuous Forward Current Peak Repetitive Forward Current		۱ _F	250	mA	
Peak Repetitive Forward Current		I _{FRM}	250	mA	
Peak Forward Surge Current, tp=1.0µs		IFSM	4.0	А	
Peak Forward Surge Current, tp=1.0s		IFSM	1.0	А	
Power Dissipation		PD	275	mW	
Operating and Storage Junction Temperature		T _J , T _{stg}	-65 to +150	°C	
Thermal Resistance		Θ_{JA}	455	°C/W	
ELECTRICAL CHARACTERISTICS PER DIODE: (T _A =25°C unless otherwise noted)					
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS	
IR	V _R =75V		500	pА	
BVR	I _R =100μA	100		V	
V _F	I _F =1.0mA		0.85	V	
VF	I _F =10mA		0.95	V	
VF	I _F =100mA		1.1	V	

R3 (9-May 2011)

pF

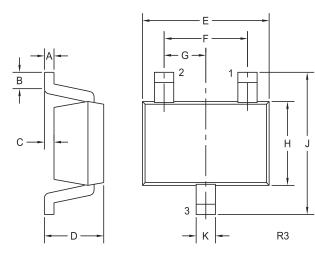
μs





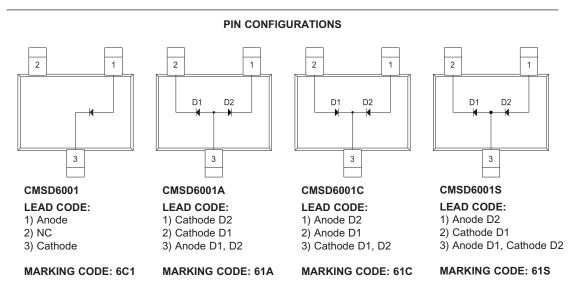
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SOT-323 CASE - MECHANICAL OUTLINE



DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
А	0.002	0.008	0.05	0.20			
В	0.004	-	0.10	-			
С	-	0.004	-	0.10			
D	0.031	0.043	0.80	1.10			
E	0.071	0.087	1.80	2.20			
F	0.051		1.30				
G	0.026		0.65				
Н	0.045	0.053	1.15	1.35			
J	0.079	0.087	2.00	2.20			
K	0.008	0.016	0.20	0.40			
SOT 323 (PEV/· P3)							

SOT-323 (REV: R3)



R3 (9-May 2011)

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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 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

· Custom product packing

- PbSn plating options
- Package details
- Application notes
- Application and design sample kits

· Custom bar coding for shipments

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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