

SURFACE MOUNT LOW LEAKAGE SILICON SWITCHING DIODES



• 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.

CMSD6001:SINGLECMSD6001A:DUAL, COMMON ANODECMSD6001C:DUAL, COMMON CATHODECMSD6001S:DUAL, IN-SERIES	MARKING CODE: 6C1 MARKING CODE: 61A MARKING CODE: 61C MARKING CODE: 61S				
MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS		
Continuous Reverse Voltage	VR	75	V		
Peak Repetitive Reverse Voltage	V _{RRM}	100	V		
Continuous Forward Current	١ _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		

OTMODE			IN CAA	
IR	V _R =75V		500	pA
BVR	I _R =100μΑ	100		V
VF	I _F =1.0mA		0.85	V
V _F	I _F =10mA		0.95	V
V _F	I _F =100mA		1.1	V
с _т	V _R =0, f=1.0MHz		2.0	pF
t _{rr}	I _R =I _F =10mA, I _{rr} =1.0mA, R _L =100Ω		3.0	μs

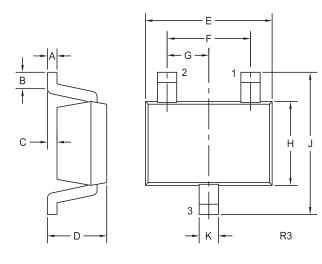
R2 (8-February 2010)



CMSD6001 CMSD6001A CMSD6001C CMSD6001S

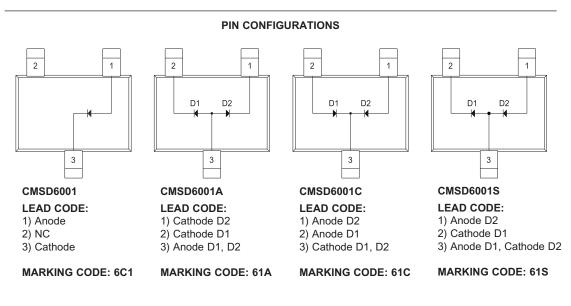
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SOT-323 CASE - MECHANICAL OUTLINE



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 (REV/· R3)						

SOT-323 (REV: R3)



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