

CMUD2836
CMUD2838
ULTRAmi™
SURFACE MOUNT
DUAL HIGH SPEED SWITCHING
SILICON DIODE

ULTRAmi™

SOT-523 CASE

Central™
Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMUD2836 and CMUD2838 types are ultra-high speed silicon switching diodes manufactured by the epitaxial planar process, in an epoxy molded ULTRAmi™ surface mount package, designed for high speed switching applications.

The following configurations are available:

CMUD2836
CMUD2838

DUAL, COMMON ANODE
DUAL, COMMON CATHODE

MARKING CODE: 2CA
MARKING CODE: 6CA

MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$)

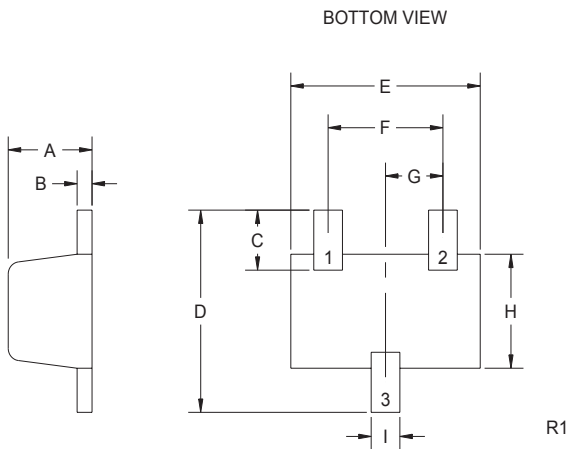
	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	75	V
Average Forward Current	I_O	200	mA
Peak Forward Current	I_{FM}	300	mA
Power Dissipation	P_D	250	mW
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +150	$^\circ\text{C}$
Thermal Resistance	Θ_{JA}	500	$^\circ\text{C/W}$

ELECTRICAL CHARACTERISTICS PER DIODE: ($T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
B_{VR}	$I_R=100\mu\text{A}$	75			V
I_R	$V_R=50\text{V}$			100	nA
V_F	$I_F=10\text{mA}$			1.0	V
V_F	$I_F=50\text{mA}$			1.0	V
V_F	$I_F=100\text{mA}$			1.2	V
C_T	$V_R=0$, $f=1\text{ MHz}$		1.5	4.0	pF
t_{rr}	$I_R=I_F=10\text{mA}$, $R_L=100\Omega$, Rec. to 1.0mA			4.0	ns

R1 (30-August 2001)

SOT-523 CASE - MECHANICAL OUTLINE



SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.025	0.029	0.63	0.73
B	0.004	0.005	0.10	0.13
C	0.015	0.019	0.39	0.49
D	0.061	0.065	1.55	1.65
E	0.061	0.065	1.55	1.65
F	0.039	0.040	0.98	1.02
G	0.019	0.020	0.48	0.52
H	0.033	0.037	0.83	0.93
I	0.009	0.010	0.23	0.25

SOT-523 (REV: R1)

