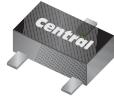


CMUD2836
CMUD2838

SURFACE MOUNT
DUAL, HIGH SPEED
SILICON SWITCHING DIODES

ULTRAmini™



SOT-523 CASE



www.centralsemi.com

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 ULTRAmini™ surface mount package, designed for high speed switching applications.

The following configurations are available:

CMUD2836 DUAL, COMMON ANODE
CMUD2838 DUAL, COMMON CATHODE

MARKING CODE: 2CA

MARKING CODE: 6CA

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

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	°C
Thermal Resistance	Θ_{JA}	500	°C/W

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

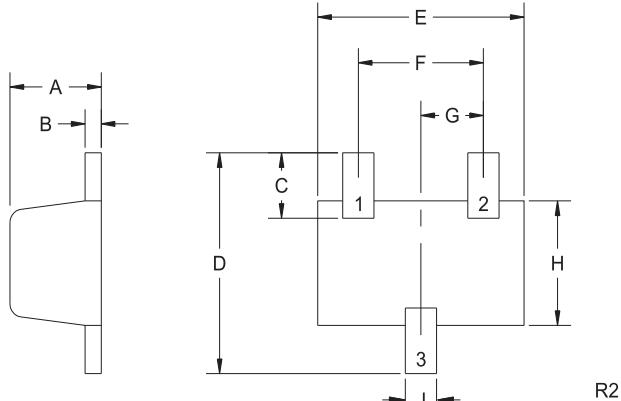
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_R	$V_R=50\text{V}$			100	nA
BV_R	$I_R=100\mu\text{A}$	75			V
V_F	$I_F=10\text{mA}$			1.0	V
V_F	$I_F=50\text{mA}$			1.0	V
V_F	$I_F=100\text{mA}$			1.2	V
C_T	$V_R=0, f=1.0\text{MHz}$		1.5	4.0	pF
t_{rr}	$I_R=I_F=10\text{mA}, I_{rr}=1.0\text{mA}, R_L=100\Omega$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

CMUD2836
CMUD2838

SURFACE MOUNT
DUAL, HIGH SPEED
SILICON SWITCHING DIODES



SOT-523 CASE - MECHANICAL OUTLINE

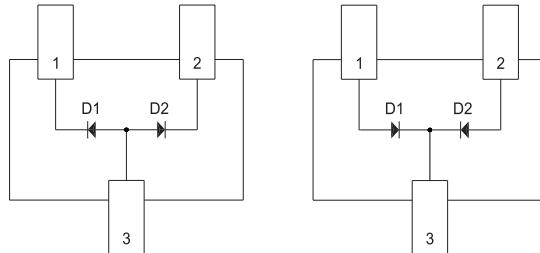


SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.023	0.031	0.58	0.78
B	0.002	0.008	0.04	0.20
C	0.013	0.021	0.34	0.54
D	0.059	0.067	1.50	1.70
E	0.059	0.067	1.50	1.70
F	0.035	0.043	0.90	1.10
G		0.020		0.50
H	0.031	0.039	0.78	0.98
J	0.010	0.014	0.25	0.35

SOT-523 (REV: R2)

(Bottom View)

PIN CONFIGURATIONS



CMUD2836

LEAD CODE:
1) Cathode D1
2) Cathode D2
3) Anode D1, D2

MARKING CODE: 2CA

CMUD2838

LEAD CODE:
1) Anode D1
2) Anode D2
3) Cathode D1, D2

MARKING CODE: 6CA

R5 (9-February 2010)