



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SOT23 SILICON DUAL VARIABLE CAPACITANCE DIODE

ZDC833A

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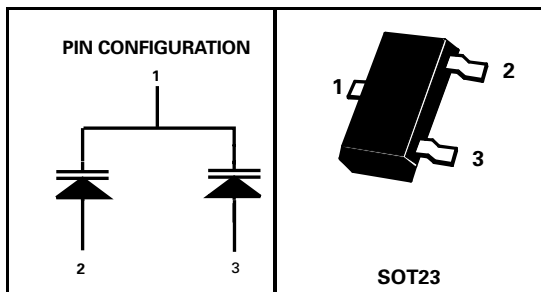
FEATURES

- * VHF to UHF operation
- * Common Cathode Dual Diode
- * Monolithic construction

APPLICATIONS

- * Mobile radios and Paggers
- * Cellular telephones
- * Voltage controlled Crystal Oscillators

PARTMARKING DETAIL ZDC833A – C2A



ABSOLUTE MAXIMUM RATINGS.(Each Diode)

PARAMETER	SYMBOL	VALUE	UNIT
Forward Current	I_F	200	mA
Power Dissipation at $T_{amb}=25^{\circ}C$	P_{tot}	330	mW
Operating and Storage Temperature Range	$T_j; T_{stg}$	-55 to +150	$^{\circ}C$

ELECTRICAL CHARACTERISTICS (at $T_{amb} = 25^{\circ}C$). (Each Diode)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.
Reverse Breakdown Voltage	V_{BR}	25			V	$I_R = 10\mu A$
Reverse Leakage Current	I_R		0.2	10	nA	$V_R = 20V$
Temperature Coefficient	η			400	ppm/ $^{\circ}C$	$V_R = 3V, f=1MHz$
Diode Capacitance	C_d	29.7	33	36.3	pF	$V_R = 2V, f=1MHz$
Capacitance Ratio	C_d / C_d	5.0		6.5		$V_R = 2V/20V, f=1MHz$
Figure of Merit	Q	200				$V_R = 3V, f=50MHz$

ZDC833A

TYPICAL CHARACTERISTICS

