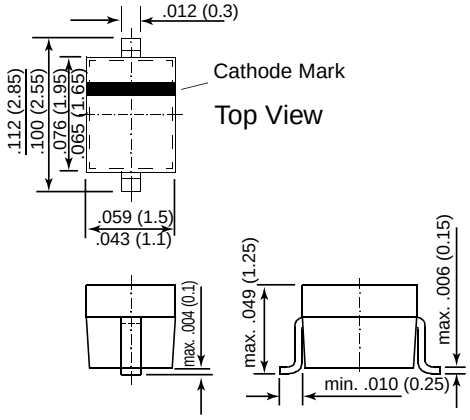
SD104AWS THRU SD104CWS

SCHOTTKY DIODES

SOD-323



Dimensions in inches and (millimeters)

FEATURES

- Low turn-on voltage
- Low capacitance
- Ultrafast switching
- Microminiature plastic package
- Single, double, and ring balanced mixer in narrow-band receivers up to 1 GHz
- Detectors and fast switching up to 1 GHz
- Phase detectors
- Suitable for radios, TV, CTV, and hyper band tuners

MECHANICAL DATA

Case: SOD-323 Plastic Package
Weight: approx. 0.004g

MAXIMUM RATINGS AND THERMAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

		SYMBOL	*VALUE*	*UNIT*
Continuous Reverse Voltage	SD104AWS	V_R	20	Volts
	SD104BWS	V_R	15	Volts
	SD104CWS	V_R	10	Volts
Forward Current		I_F	30	mA
Power Dissipation T_C= 25°C		P_{tot}	150 (NOTE 1)	mW
Junction Temperature		T_j	125	°C
Storage Temperature Range		T_S	-55 to + 150	°C
Thermal Resistance Junction to Ambient Air		$R_{\Theta JA}$	650 (NOTE 1)	K/W

NOTES:
(1) Valid provided that electrodes are kept at ambient temperature

SD104AWS THRU SD104CWS

ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

		SYMBOL	MIN.	TYP.	MAX.	UNIT
Reverse Breakdown Voltage	SD104AWS	V_R	20	-	-	Volts
at I_R = 10 μA	SD104BWS	V_R	15	-	-	Volts
	SD104CWS	V_R	10	-	-	Volts
Leakage Current						
at V_R = 15 V	SD104AWS	I_R	-	-	500	nA
at V_R = 10 V	SD104BWS	I_R	-	-	500	nA
at V_R = 5 V	SD104CWS	I_R	-	-	500	nA
Forward Voltage						
at I_F = 0.1 mA	SD104AWS	V_F	-	-	350	mV
	SD104BWS	V_F	-	-	325	mV
	SD104CWS	V_F	-	-	310	mV
at I_F = 1.0 mA	SD104AWS	V_F	-	-	450	mV
	SD104BWS	V_F	-	-	425	mV
	SD104CWS	V_F	-	-	400	mV
at I_F = 10 mA	SD104AWS	V_F	-	-	600	mV
	SD104BWS	V_F	-	-	580	mV
	SD104CWS	V_F	-	-	565	mV
Diodes Capacitance						
at V_R = 0 V, f = 1 MHz	SD104AWS	C_D	-	-	0.8	pF
	SD104BWS	C_D	-	-	0.9	pF
	SD104CWS	C_D	-	-	1.0	pF

NOTES:
(1) Valid provided that electrodes are kept at ambient temperature