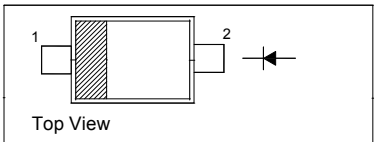
BAR64-02V

GENERAL PURPOSE PIN DIODES

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View

Simplified outline SOD-523 and symbol

FEATURE

- Low diode capacitance
- Low diode forward resistance
- Marking: O

Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25℃

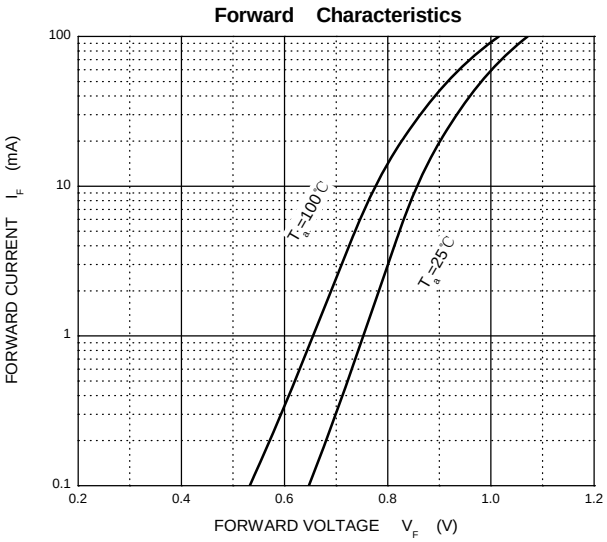
Parameter	Symbol	Limit	Unit
Continuous Reverse Voltage	V_R	150	V
Continuous Forward Current	I_F	100	mA
Power Dissipation	P_D	150	mW
Thermal Resistance from Junction to Soldering Point	$R_{\theta JS}$	85	℃/W
Junction Temperature	T_j	-55~+150	℃
Storage Temperature	T_{STG}	-55~+150	℃

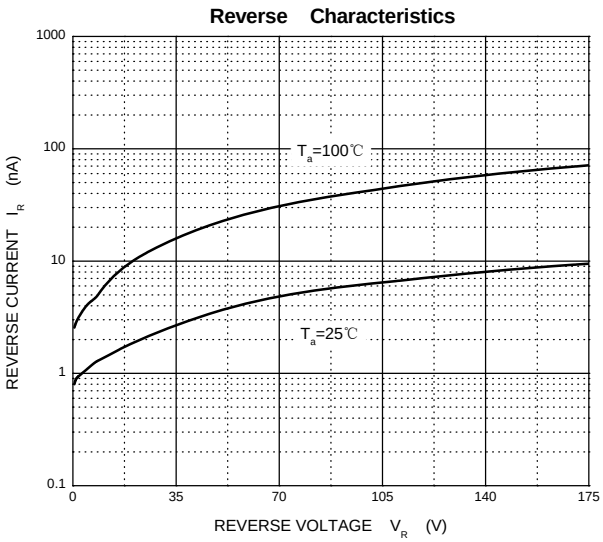
Electrical Ratings @Ta=25℃

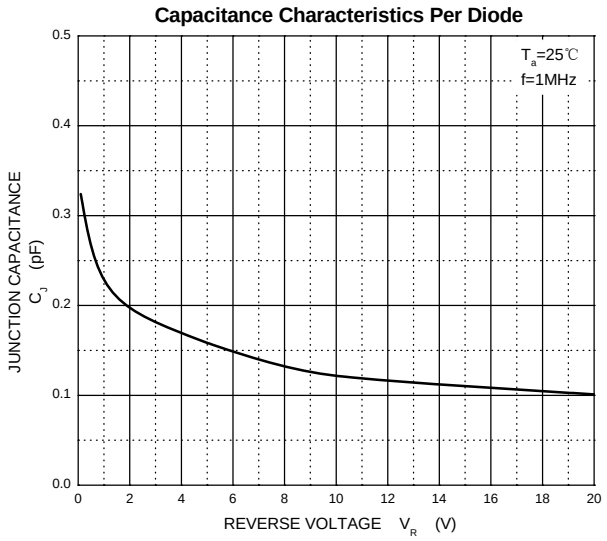
Parameter	Symbol	Min	Typ	Max	Unit	Condition
Continuous reverse voltage	V_R	150			V	I_R=10μA
Forward voltage	V_F			1.1	V	I_F=50mA
Reverse current	I_R			10	uA	V_R=150V
Diode capacitance	C_{d1}		0.4*		pF	V_R=0V,f=1MHz
	C_{d2}			0.55	pF	V_R=1V,f=1MHz
	C_{d3}			0.35	pF	V_R=5V,f=1MHz
Diode forward resistance	r_D			9	Ω	I_F=0.5mA , f=100MHz;note1
	r_D			6.5	Ω	I_F=1mA , f=100MHz;note1
	r_D			2.5	Ω	I_F=10mA , f=100MHz;note1

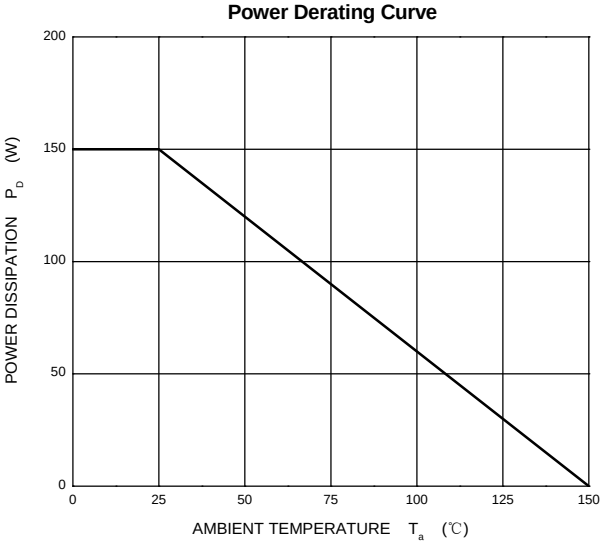
Note 1. Guaranteed on AQL basis: inspection level S4,AQL 1.0.

Typical Characteristics

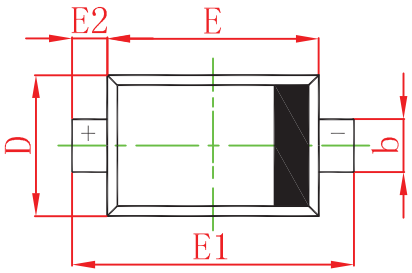


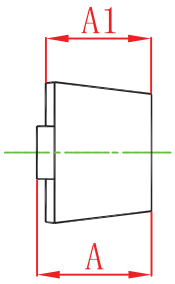


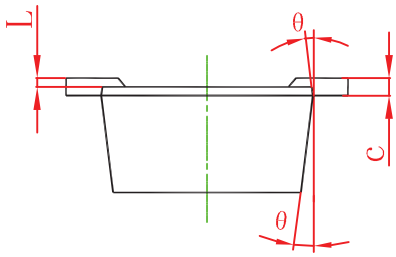




SOD-523 Package Outline Dimensions

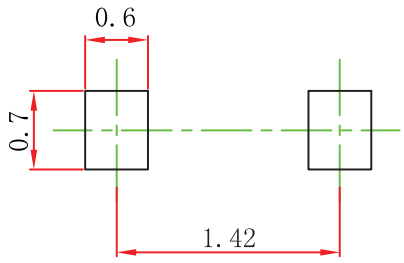






Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.510	0.770	0.020	0.031
A1	0.500	0.700	0.020	0.028
b	0.250	0.350	0.010	0.014
c	0.080	0.150	0.003	0.006
D	0.750	0.850	0.030	0.033
E	1.100	1.300	0.043	0.051
E1	1.500	1.700	0.059	0.067
E2	0.200 REF		0.008 REF	
L	0.010	0.070	0.001	0.003
θ	7° REF		7° REF	

SOD-523 Suggested Pad Layout



Note:
1.Controlling dimension:in millimeters.
2.General tolerance:± 0.05mm.
3.The pad layout is for reference purposes only.