

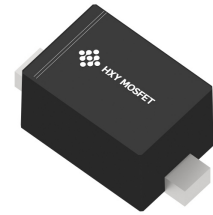


Features

- Low diode capacitance
- Low diode forward resistance

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BAR64-02V	SOD-523	O	3000



SOD-523



Maximum Ratings (Ta=25 unless otherwise noted)

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	$^{\circ}\text{C}/\text{W}$
Junction Temperature	T_j	-55~+150	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55~+150	$^{\circ}\text{C}$

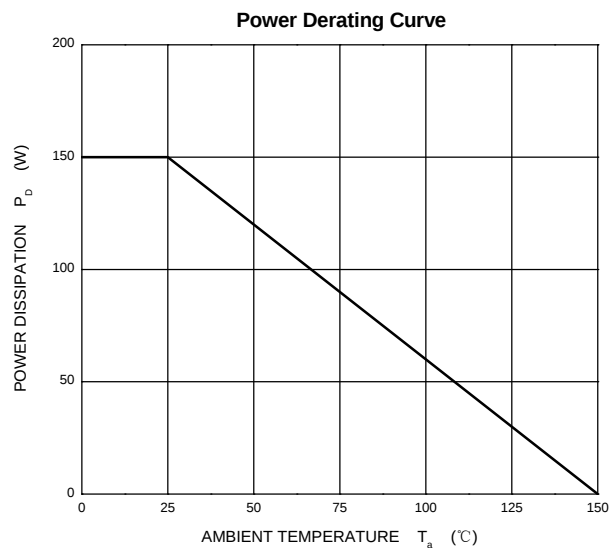
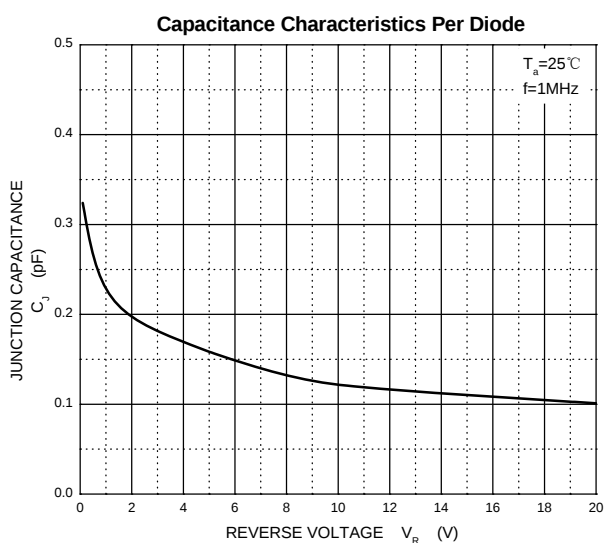
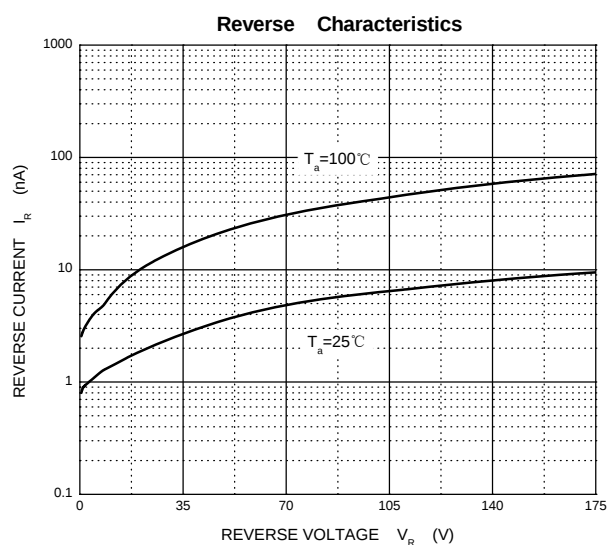
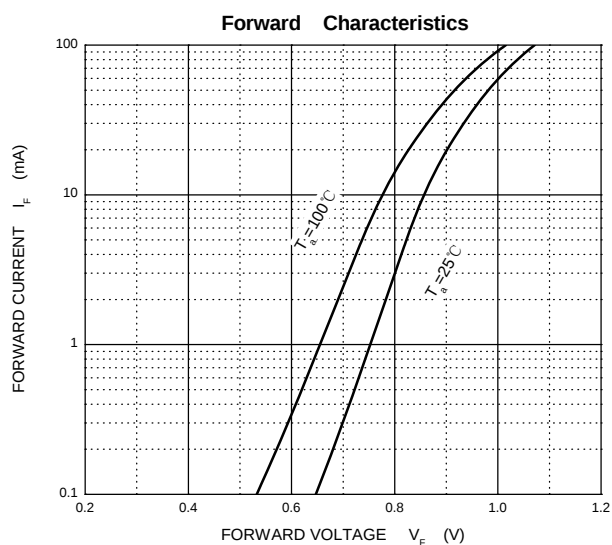
Electrical Characteristics (Ta=25 unless otherwise specified)

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

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



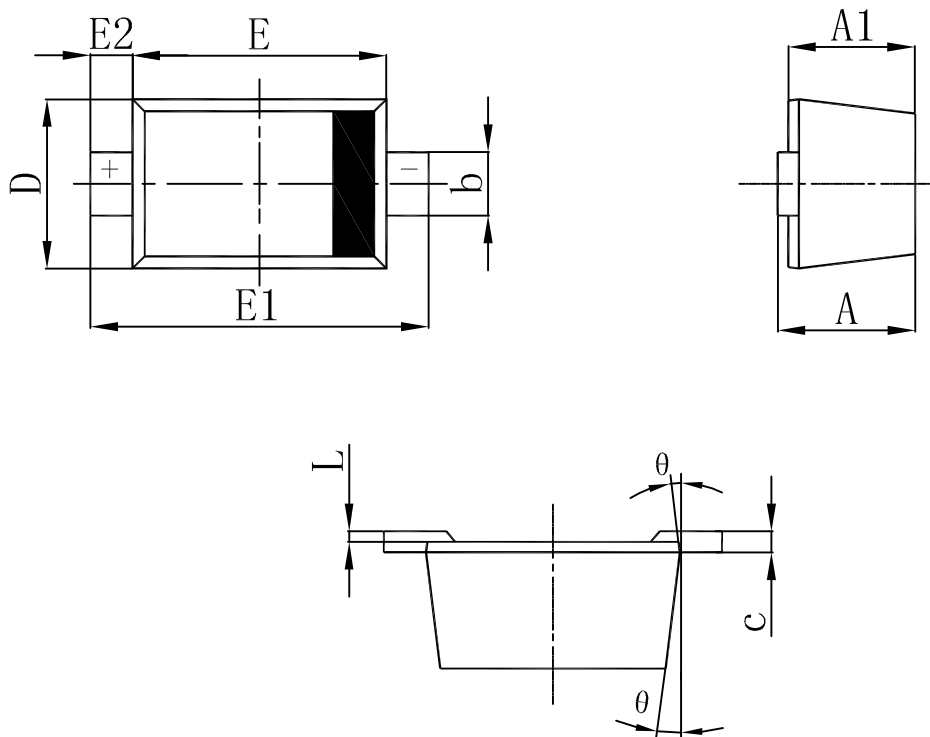
Typical Characteristics





Package Outline Dimensions

SOD-523



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	



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