



## Features

- Low diode capacitance
- Low diode forward resistance



SOD-523



## Package Marking and Ordering Information

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

## Maxmim Ratings (Ta=25 unless otherwise noted)

DUfUa YHf	Gna Vc	@a Jh	I bJh
7 cbhJbi ci g'FYj YfgY'Jc' HU Y	$V_R$	150	V
7 cbhJbi ci g': cfk UFX'7 i ffYbhi	$I_F$	100	mA
Dck Yf'8 JggjdUHjcb	$P_D$	150	mW
H Yfa U'FYgJgHbW'Zca ' >i bWjcb'lc Gc'XYfJb[ 'DcJbhi	$R_{\theta JS}$	85	$^{\circ}\text{C/W}$
>i bWjcb'HYa dYfUhi fY	$T_j$	-55~+150	$^{\circ}\text{C}$
GfcfUJ YHYa dYfUhi fY	$T_{STG}$	-55~+150	$^{\circ}\text{C}$

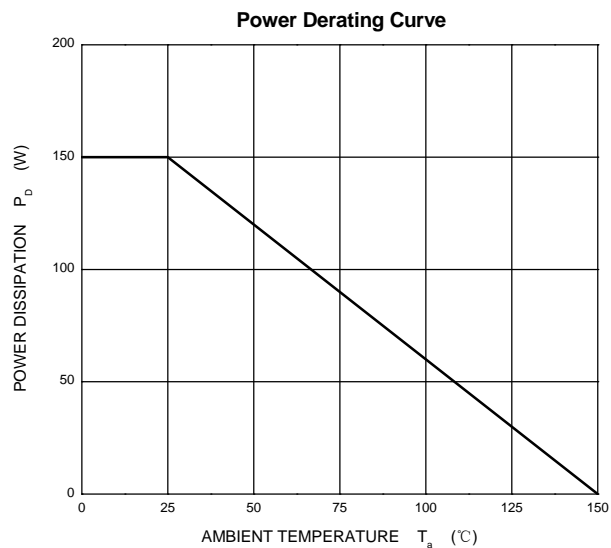
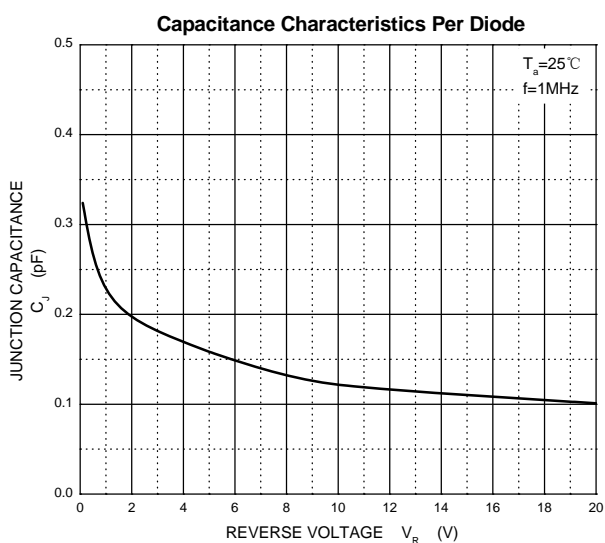
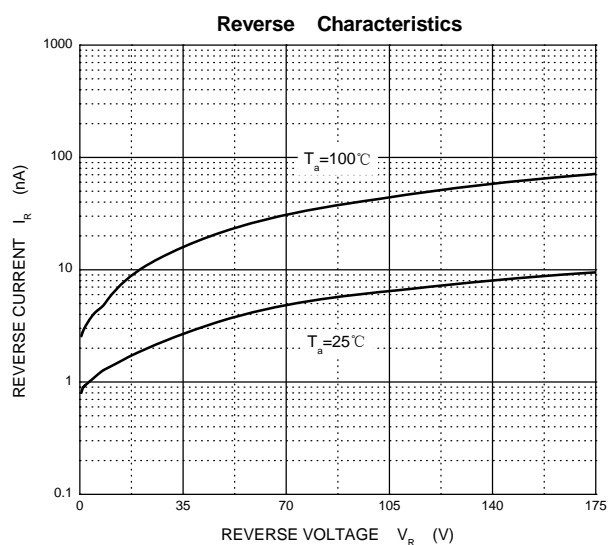
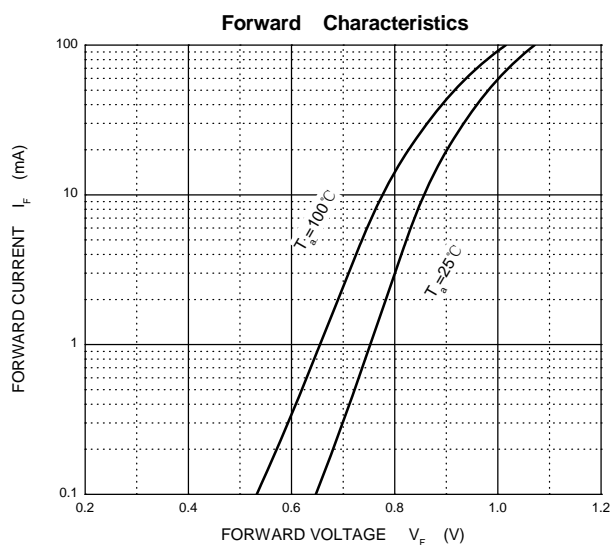
## Electrcal Charcteristics (Ta=25 unless otherwise specified)

DUfUa YHf	Gna Vc	A Jb	Hnd	AU	I bJh	7 cbXJhJcb
7 cbhJbi ci g'fYj YfgY'j c' HU Y	$V_R$	150			V	$I_R=10\mu\text{A}$
: cfk UFX'j c' HU Y	$V_F$			1.1	V	$I_F=50\text{mA}$
FYj YfgY'W ffYbhi	$I_R$			10	$\mu\text{A}$	$V_R=150\text{V}$
8 JcXY'WUdUWjHbW'	$C_{d1}$		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	$V_R=5\text{V}, f=1\text{MHz}$
8 JcXY'Zcfk UFX'fYgJgHbW'	$r_D$			9	$\Omega$	$I_F=0.5\text{mA}, f=100\text{MHz}; \text{note1}$
	$r_D$			6.5	$\Omega$	$I_F=1\text{mA}, f=100\text{MHz}; \text{note1}$
	$r_D$			2.5	$\Omega$	$I_F=10\text{mA}, f=100\text{MHz}; \text{note1}$

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



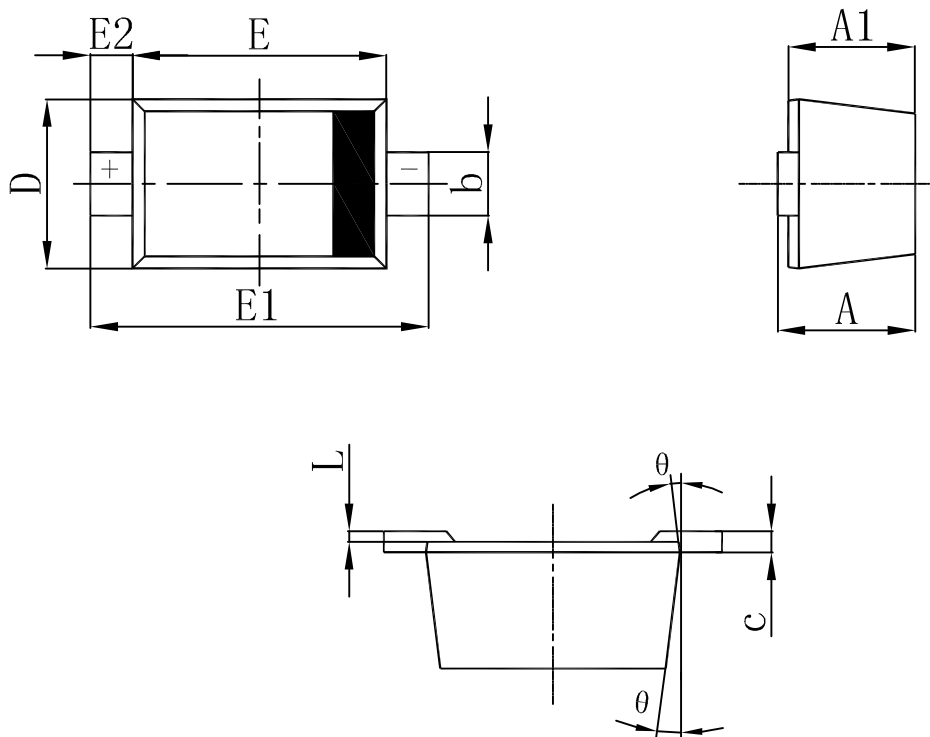
## Typical Characteristics





## 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
$\theta$	7° REF		7° REF	



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