WILLAS

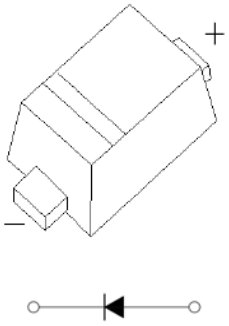
RoHS COMPLIANT

SOD-523 Plastic-Encapsulate Diodes

BAS516T1

FAST SWITCHING DIODE

SOD-523



MARKING: 61 or 6

FEATURES

- Small Package
- Low Reverse Current
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- Pb free product for packing code suffix "G",
  Halogen free product for packing code suffix "H"
- **Moisture Sensitivity Level 1**

MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

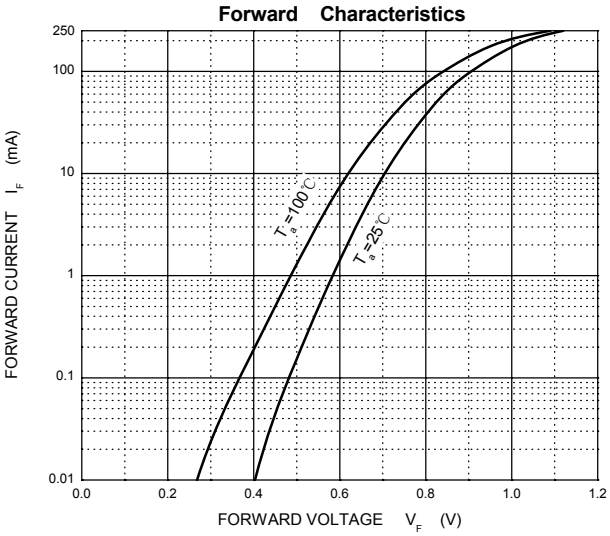
Symbol	Parameter	Value	Unit
V_{RM}	Non-Repetitive Peak Reverse Voltage	100	V
V_{RRM}	Peak Repetitive Reverse Voltage	75	V
V_{RWM}	Working Peak Reverse Voltage		
$V_{R(RMS)}$	RMS Reverse Voltage	53	V
I_O	Average Rectified Output Current	250	mA
I_{FSM}	Peak Forward Surge Current @t=1μs	4	A
	Peak Forward Surge Current @t=1s	0.5	A
P_D	Power Dissipation	200	mW
$R_{\Theta JA}$	Thermal Resistance from Junction to Ambient	625	℃/W
T_j	Junction Temperature	150	℃
T_{stg}	Operating/Storage Temperature	-55~+150	℃

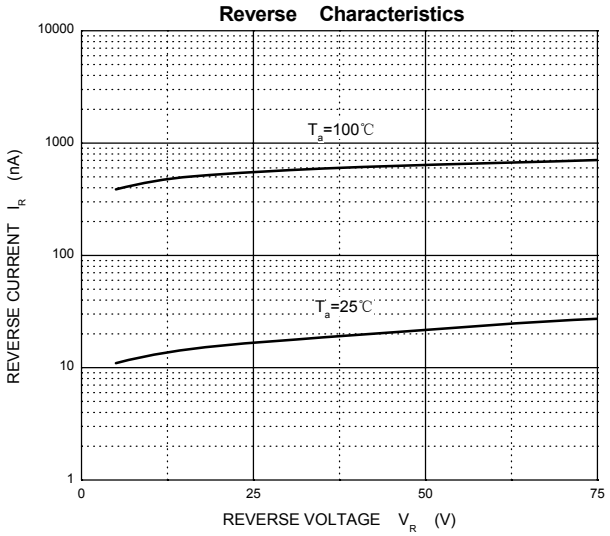
ELECTRICAL CHARACTERISTICS(T_a=25℃ unless otherwise specified)

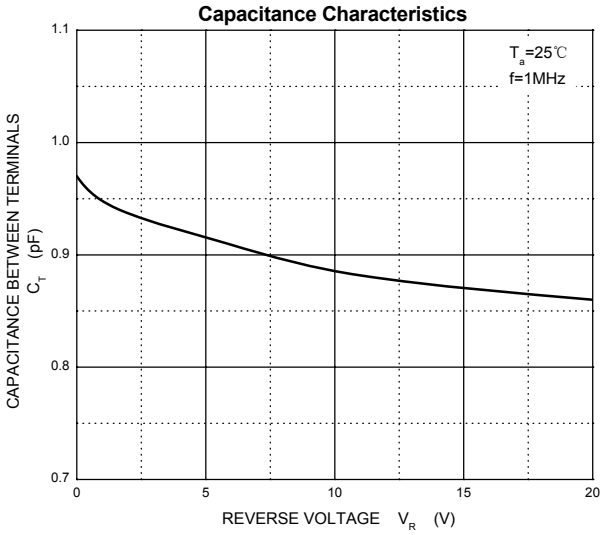
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	I_R=100μA	75			V
Reverse current	I_R	V_R=25V			30	nA
		V_R=75V			1	μA
Forward voltage	V_F	I_F=1mA			0.715	V
		I_F=10mA			0.855	V
		I_F=50mA			1	V
		I_F=150mA			1.25	V
Total capacitance	C_{tot}	V_R=0V,f=1MHz			1	pF
Reverse recovery time	t_{rr}	I_F= I_R =10mA, I_{rr}=0.1*I_R,R_L=100Ω			4	ns

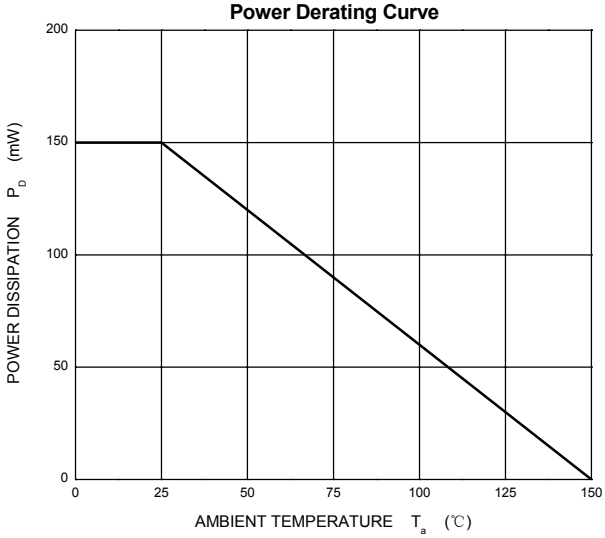
SOD-523 Plastic-Encapsulate Diodes

Typical Characteristics









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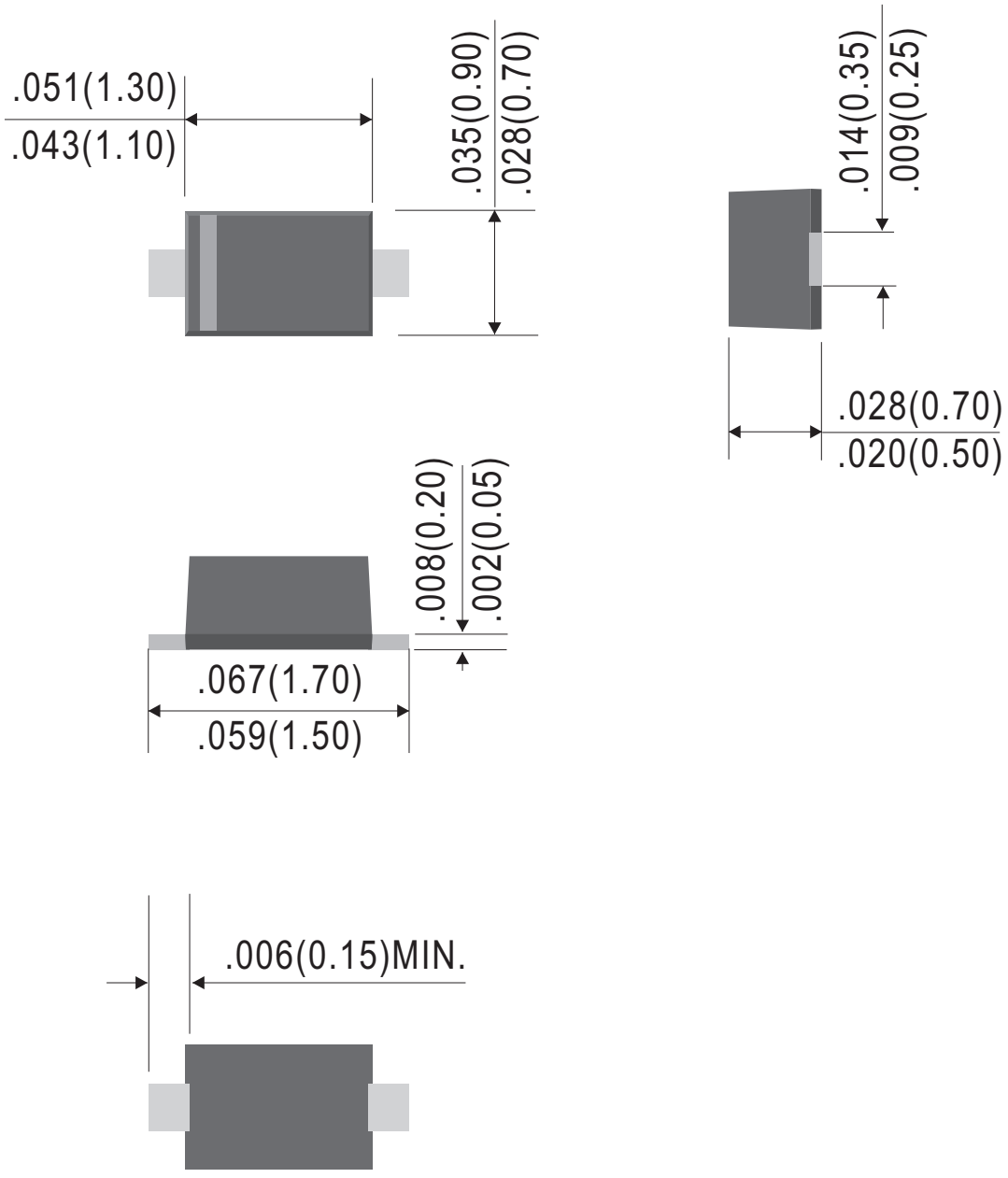
RoHS COMPLIANT

SOD-523 Plastic-Encapsulate Diodes

BAS516T1

Outline Drawing

SOD-523



Dimensions in inches and (millimeters)

Rev.C

WILLAS

RoHS COMPLIANT

SOD-523 Plastic-Encapsulate Diodes

BAS516T1

Ordering Information:

Device PN	Packing
BAS516T1 G(1)-WS	Tape&Reel: 3 Kpcs/Reel

Note: (1) RoHS product for packing code suffix "G"；Halogen free product for packing code suffix "H"

*****Disclaimer*****

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