

**Features**

- Low forward voltage drop
- High conductance
- Lead free
- SMD package
- Ideal for low voltage rectification, DC/DC converter



SOD-323

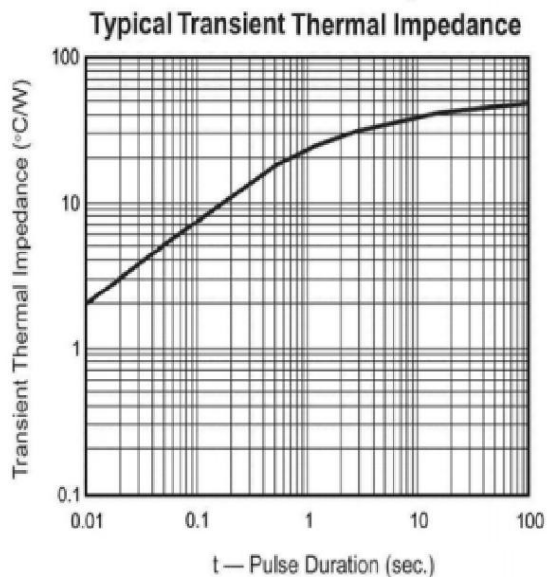
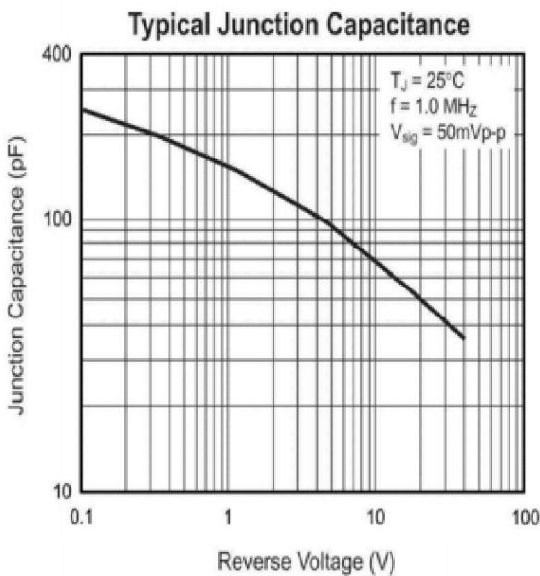
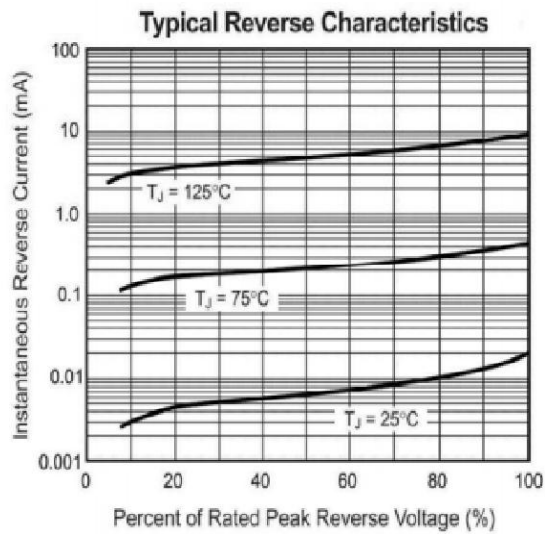
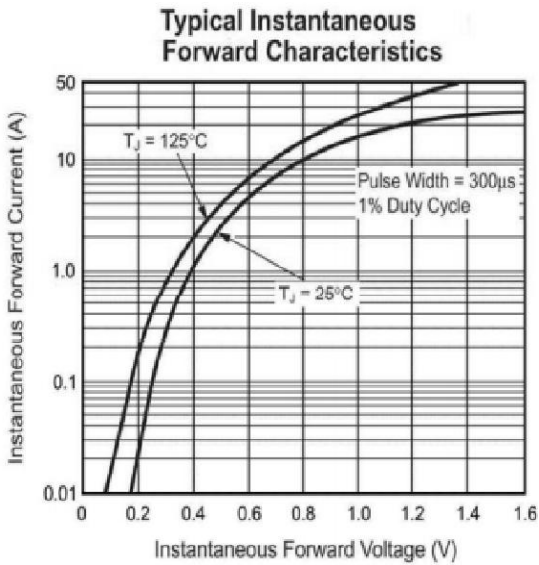
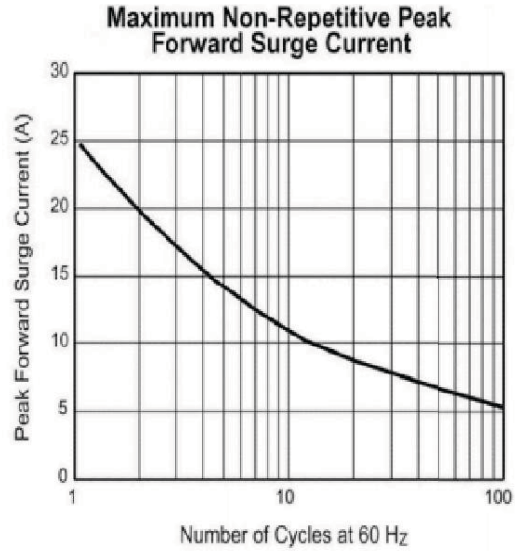
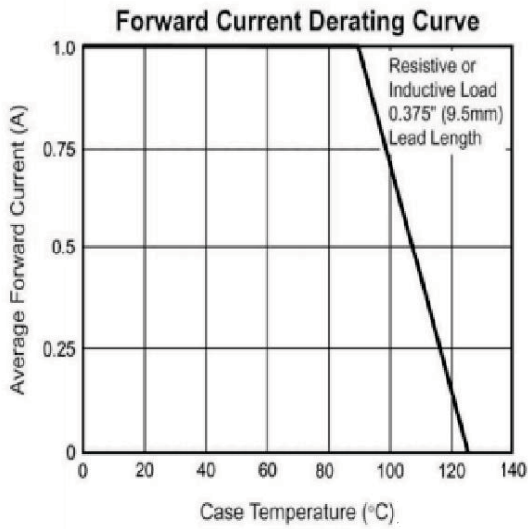
**Absolute Maximum Ratings** ( $T_A=25^{\circ}\text{C}$  unless otherwise specified)

Symbol	GDB5817WS	GDB5818WS	GDB5819WS	Unit
$V_{RRM}$ $V_{RWM}$ $V_R$	20	30	40	V
$V_{R(RMS)}$	14	21	28	V
$I_F$	1			A
$I_{FSM}$	25			A
$P_d$	200			mW
$R_{\theta JA}$	500			$^{\circ}\text{C}/\text{W}$
$T_J, T_{STG}$	-65 to 125			$^{\circ}\text{C}$

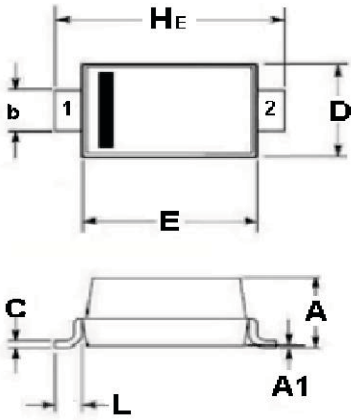
**Electrical Characteristics** ( $T_A=25^{\circ}\text{C}$  unless otherwise specified)

Symbol	Conditions	GDB5817WS		GDB5818WS		GDB5819WS		Unit
		Min	Max	Min	Max	Min	Max	
$V_{(BR)}$	$I_R=1\text{mA}$	20		30		40		V
$V_F$	$I_F=0.1\text{A}$		0.32		0.35		0.40	V
	$I_F=1\text{A}$		0.45		0.55		0.60	
	$I_F=3\text{A}$		0.75		0.80		0.90	
$I_{RM}$	$V_R=V_{RRM}$	1						mA
$C_J$	$V_R=4\text{V}, f=1.0\text{MHZ}$	120						pF

**Typical Characteristic Curves**



**Package Outline Dimensions (in mm)**



	<b>SOD-323</b>	
	Min	Max
A	0.80	1.00
A1	0.00	0.10
b	0.25	0.40
C	0.09	0.177
D	1.15	1.35
E	1.60	1.80
HE	2.30	2.70
L	0.20	0.40

**PIN: 1. CATHODE 2. ANODE**

**Marking**

MPN	GDB5817WS	GDB5818WS	GDB5819WS
Marking	SJ	SK	SL