

**Middle Power Schottky Barrier Diode**

**Features**

- 1A Average rectified forward current
- Low forward voltage
- Low leakage current
- Small package SOD-323



SOD-323



Circuit

**Applications**

- Switching circuit
- Middle current rectification



Marking

**Absolute maximum ratings**

Parameter	Symbol	Value	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	30	V
Reverse voltage (DC)	$V_R$	20	V
Average rectified forward current	$I_O$	1	A
Peak forward current <sup>1</sup>	$I_{PK}$	25	A
Junction temperature	$T_J$	150	°C
Operating temperature	$T_{opr}$	-40 ~ 85	°C
Storage temperature	$T_{stg}$	-55 ~ 150	°C

**Electronics characteristics ( $T_A=25^{\circ}C$ )**

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward voltage	$V_F$	$I_F=1A$	-	0.46	0.57	V
Reverse current	$I_R$	$V_R=V_R$	-	5.2	50	uA
Junction capacitance	$C_J$	$V_R=4V, F=1MHz$	-	-	120	pF

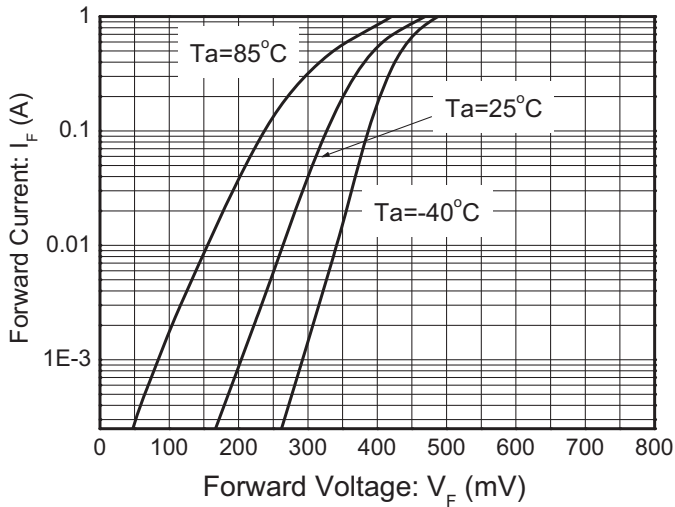
**Order Informations**

Device	Package	Marking	Shipping
WSB5501W-2/TR	SOD-323	*J <sup>2</sup>	3000/Reel&Tape

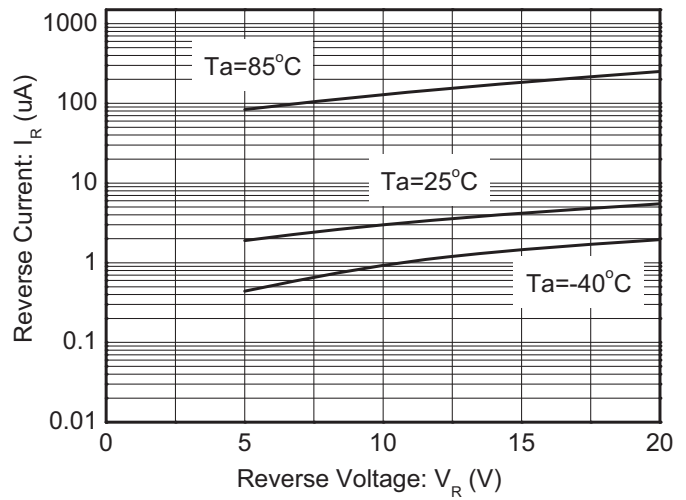
**Note 1** : Pulse Width=1us, Single Pulse

**Note 2** : \* = Month code (A~Z); J = Device code

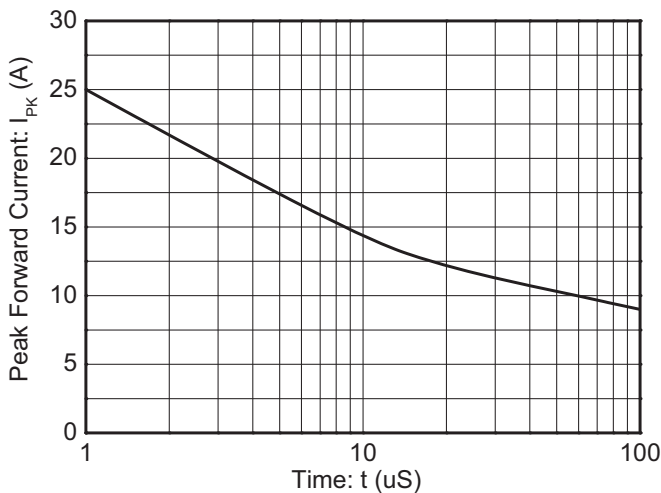
Typical characteristics (Ta=25°C, unless otherwise noted)



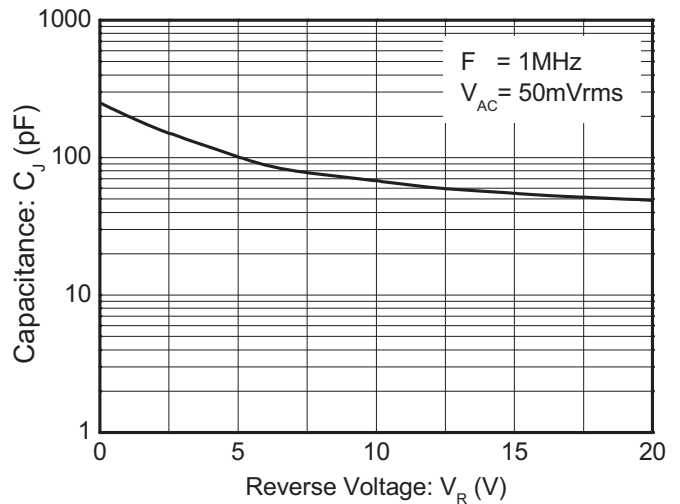
Forward voltage vs. Forward current



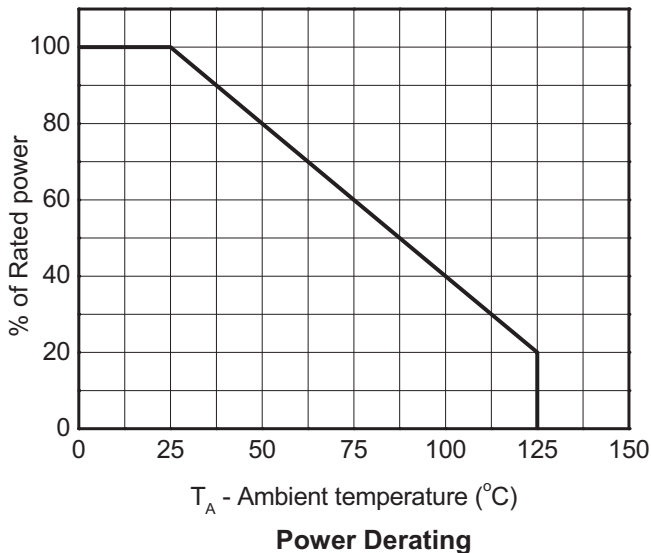
Reverse current vs. Reverse voltage



Peak pulse forward current characteristics



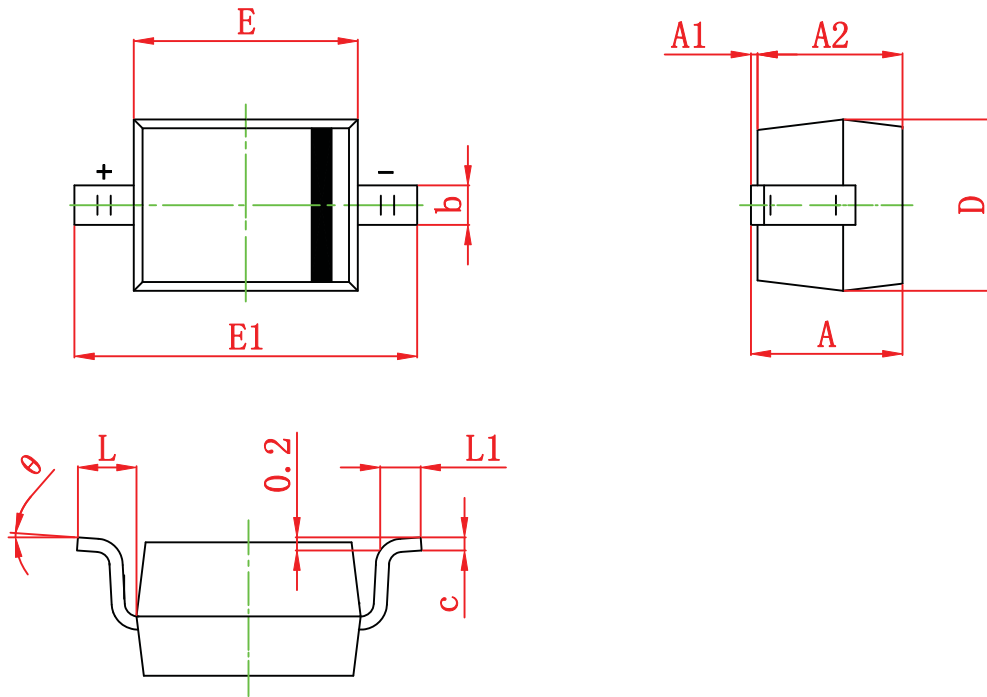
Junction capacitance vs. Reverse voltage



Power Derating

Package outline dimensions

SOD-323



Symbol	Dimensions in millimeter		
	Min.	Typ.	Max.
A	-	-	1.000
A1	-	-	0.100
A2	0.800	0.850	0.900
b	0.250	0.300	0.350
c	0.080	0.115	0.150
D	1.200	1.300	1.400
E	1.600	1.700	1.800
E1	2.500	2.600	2.700
L	0.475 (REF)		
L1	0.250	0.325	0.400