

**SOD-323 Plastic-Encapsulate Diode**
**PRODUCT SUMMARY**

RB551V-30 Schottky Diodes

**FEATURES**

 High current rectifier Schottky diode  
 Low voltage, low inductance  
 For power supply

**MARKING: D**
**SOD-323**


**Pb-free; RoHS-compliant**
**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

 Single Diode @  $T_A = 25^\circ\text{C}$ 

Parameter	Symbol	Limits	Unit
Peak reverse voltage	$V_{RM}$	30	V
DC reverse voltage	$V_R$	20	V
Mean rectifying current	$I_O$	0.5	A
Peak forward surge current	$I_{FSM}$	2	A
Junction temperature	$T_j$	125	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-40~+125	$^\circ\text{C}$

**ELECTRICAL RATINGS**

 @  $T_A = 25^\circ\text{C}$ 

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$			0.36 0.47	V	$I_F=100\text{mA}$ $I_F=500\text{mA}$
Reverse current	$I_R$			100	$\mu\text{A}$	$V_R=20\text{V}$

**SOD-323 Plastic-Encapsulate Diode**
**TYPICAL CHARACTERISTICS**

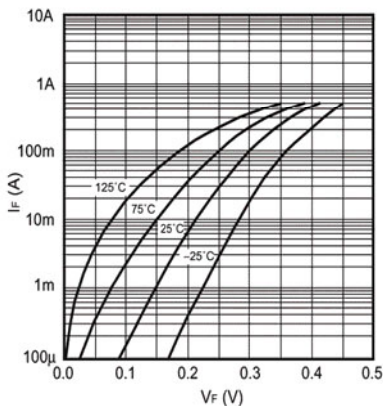
 Electrical Characteristic curves ( $T_a = 25^\circ\text{C}$ )


Fig.1 Forward characteristics

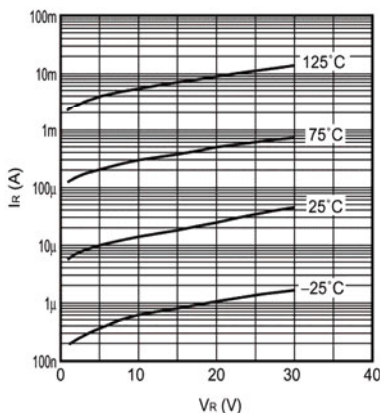


Fig.2 Reverse characteristics

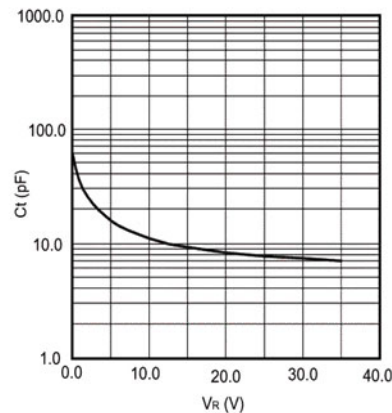


Fig.3 Capacitance between terminals characteristics

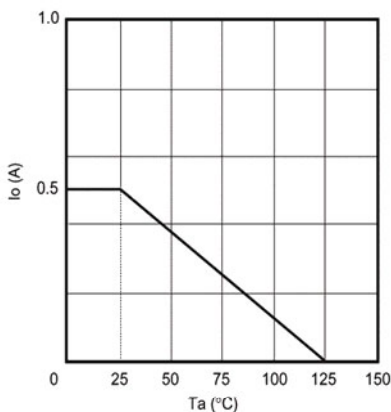


Fig.4 Derating curve

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