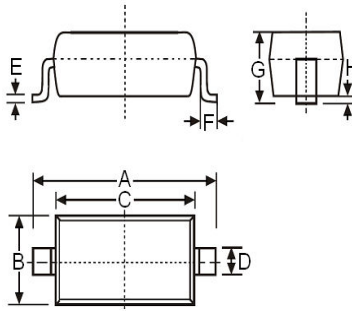


SURFACE MOUNT SCHOTTKY BARRIER DIODE	REVERSE VOLTAGE – 30 Volts FORWARD CURRENT – 0.5 Ampere																														
<p>FEATURES</p> <ul style="list-style-type: none"> • Extremely low VF drop • Low inductance <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> • Case: SOD-323 Plastic • Case Material: “Green” molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl) • Moisture Sensitivity: Level 1 per J-STD-020D • Lead Free in RoHS 2002/95/EC Compliant 	<p style="text-align: center;">SOD-323</p> <div style="display: flex; align-items: center; justify-content: center;">  <table border="1" style="margin-left: 20px; border-collapse: collapse; text-align: center;"> <thead> <tr> <th colspan="3">SOD-323</th> </tr> <tr> <th>Dim.</th> <th>Min.</th> <th>Max.</th> </tr> </thead> <tbody> <tr><td>A</td><td>2.50</td><td>2.70</td></tr> <tr><td>B</td><td>1.20</td><td>1.40</td></tr> <tr><td>C</td><td>1.60</td><td>1.80</td></tr> <tr><td>D</td><td>0.25</td><td>0.35</td></tr> <tr><td>E</td><td>0.08</td><td>0.15</td></tr> <tr><td>F</td><td>0.25</td><td>0.40</td></tr> <tr><td>G</td><td>---</td><td>1.0</td></tr> <tr><td>H</td><td>0.00</td><td>0.10</td></tr> </tbody> </table> </div> <p style="text-align: center; font-size: small;">Dimensions in millimeter</p>	SOD-323			Dim.	Min.	Max.	A	2.50	2.70	B	1.20	1.40	C	1.60	1.80	D	0.25	0.35	E	0.08	0.15	F	0.25	0.40	G	---	1.0	H	0.00	0.10
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Maximum Ratings & Thermal Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	RB551V-30	Units
Peak Reverse Voltage	V _{RM}	30	V
DC reverse voltage	V _R	20	
Average Rectified Forward Current	I _O	500	mA
Peak Forward Surge Current @ tp=8.3ms	I _{FSM}	2	A
Operating Temperature Range	T _J	125	°C
Storage Temperature Range	T _{STG}	-40~+125	°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Test Condition	Symbol	RB551V-30	Unit
Reverse Breakdown Voltage	I _R = 100uA	V _{BR}	30	V
Maximum Forward Voltage	I _F = 100mA I _F = 500mA	V _F	360 470	mV
Maximum DC Reverse Current at Rated DC Blocking Voltage	V _R = 20V	I _R	100	uA

REV. 1, Oct-2010, KSHR45

RATING AND CHARACTERISTIC CURVES
RB551V-30



FIG.1- TYPICAL FORWARD CHARACTERISTICS

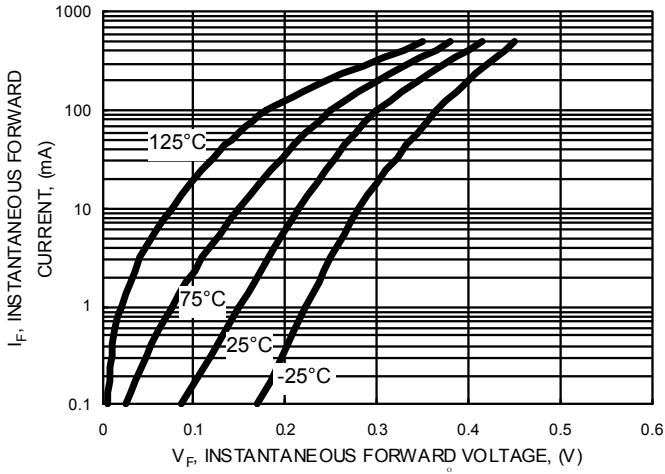


FIG.2- TYPICAL REVERSE CHARACTERISTICS

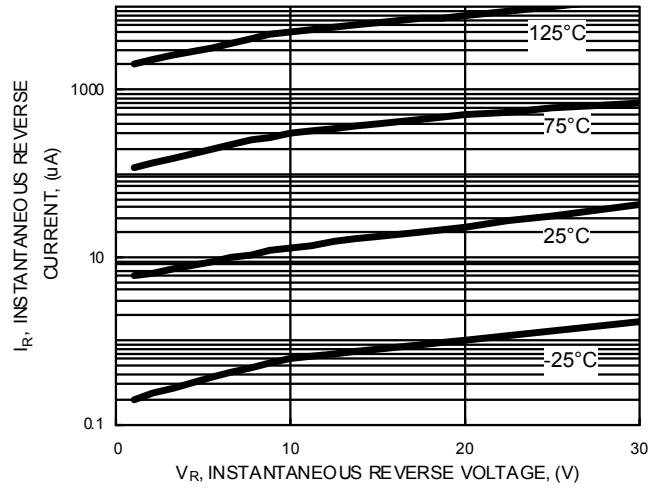


FIG.3- TYPICAL JUNCTION CAPACITANCE

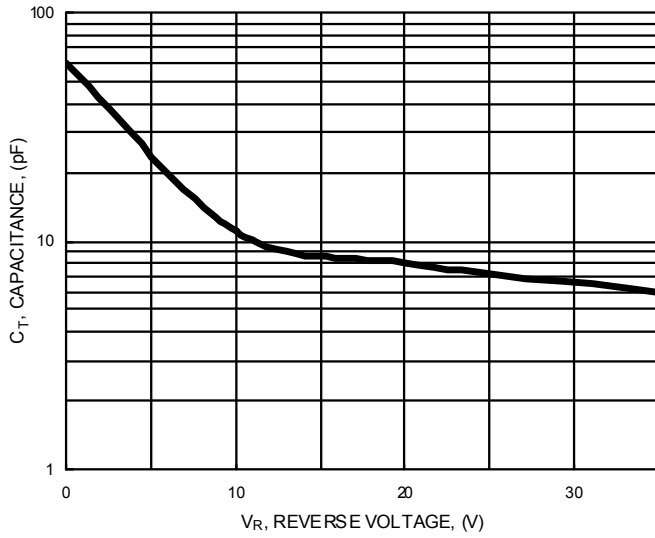
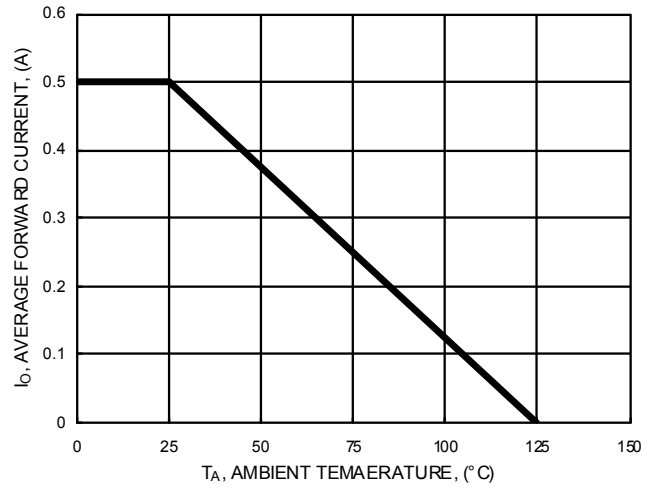


FIG.4- FORWARD CURRENT DERATING CURVE



Device Marking :

Device P/N	Marking	Equivalent Circuit Diagram
RB551V-30	D	

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