

**SURFACE MOUNT
SCHOTTKY BARRIER DIODE**

**REVERSE VOLTAGE – 40 Volts
FORWARD CURRENT – 0.1 Ampere**

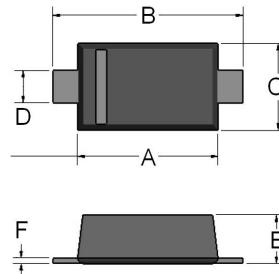
FEATURES

- Low Forward Voltage Drop
- Flat Lead SOD-323F Small Outline Plastic Package
- Surface Device Type Mounting
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode

MECHANICAL DATA

- Case: SOD-323F Plastic

SOD-323F



SOD-323F		
DIM.	MIN.	MAX.
A	1.60	1.80
B	2.30	2.70
C	1.15	1.35
D	0.25	0.40
E	0.80	1.00
F	0.05	0.25
All Dimensions in millimeter		

Maximum Ratings & Thermal Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	RB500V-40F	Units
Power Dissipation	P_D	200	mW
Repetitive Peak Reverse Voltage	V_{RRM}	45	V
Peak Forward Surge Current @ $t_p=8.3\text{ms}$	I_{FSM}	1	A
Maximum DC Blocking Voltage	V_R	40	V
Average Forward Rectified Current	$I_{F(AV)}$	100	mA
Operating Temperature Range	T_J	+125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-40~+125	$^\circ\text{C}$

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

Characteristic	Test Condition	Symbol	RB500V-40F	Unit
Breakdown Voltage	$I_R=500\mu\text{A}$	BV	40	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$V_R=10\text{V}$	I_R	1	μA
Maximum DC Forward Voltage	$I_F=10\text{mA}$	V_F	0.450	V

These ratings are limiting values above which the serviceability of the diode may be impaired.

REV. 0, Jul-2011, KS DR69

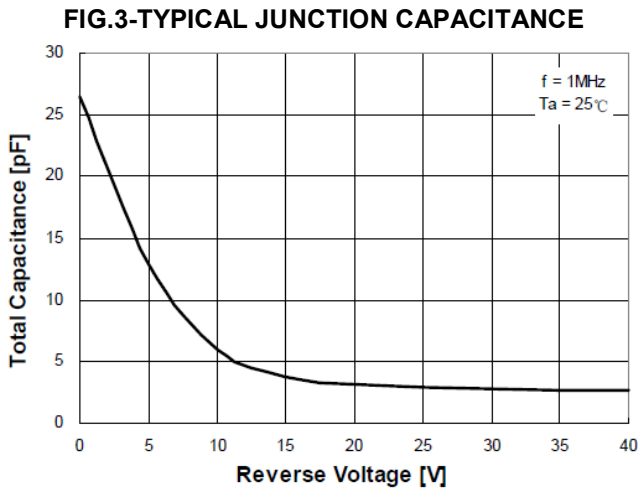
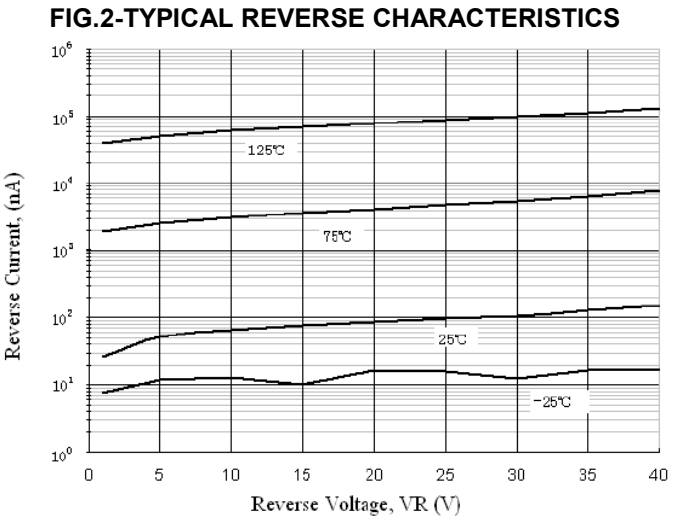
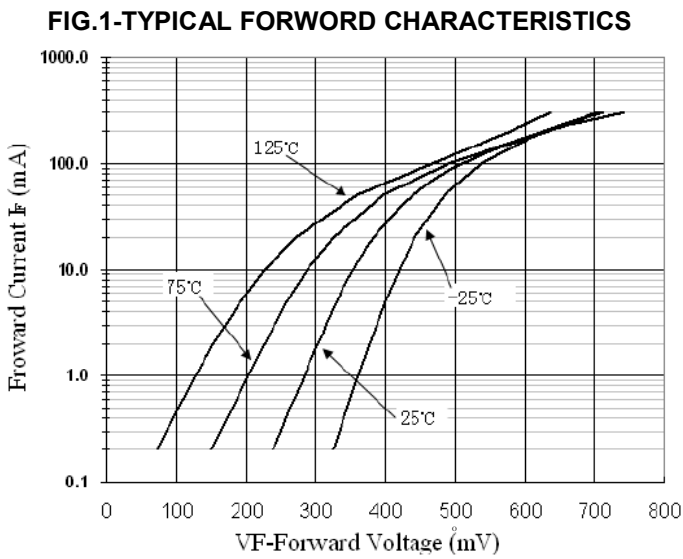



FIG.4-TYPICAL Forward Current Derating Curve

Device Marking :

Device P/N	Marking	Equivalent Circuit Diagram
RB500V-40F	5	1  2

Important Notice and Disclaimer

LSC reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

LSC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does LSC assume any liability for application assistance or customer product design. LSC does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

No license is granted by implication or otherwise under any intellectual property rights of LSC.

LSC products are not authorized for use as critical components in life support devices or systems without express written approval of LSC.