

SURFACE MOUNT SCHOTTKY BARRIER DIODE

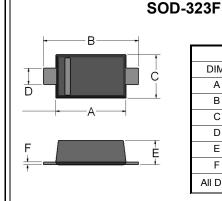
REVERSE VOLTAGE – 40 Volts FORWARD CURRENT – 0.1 Ampere

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				
DIM.	MIN.	MAX.		
Α	1.60	1.80		
В	2.30	2.70		
С	1.15	1.35		
D	0.25	0.40		
Е	0.80	1.00		
F	0.05	0.25		
All Dimensions in millimeter				

Maximum Ratings & Thermal Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	RB501V-40F	Units	
Power Dissipation	PD	200	mW	
Repetitive Peak Reverse Voltage	VRM	40	V	
Peak Forward Surge Current @ tp=8.3ms	I _{FSM}	1	Α	
Maximum DC Blocking Voltage	VR	20	V	
Average Forward Rectified Current	lF(AV)	100	mA	
Operating Temperature Range	T _J	+125	$^{\circ}\mathbb{C}$	
Storage Temperature Range	T _{STG}	-65~+125	$^{\circ}\!\mathbb{C}$	

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Test Condition	Symbol	RB501V-40F	Unit
Breakdown Voltage	IR=500μA	Bv	42	٧
Maximum DC Reverse Current at Rated DC Blocking Voltage	V _R =10V	I _R	30	uA
Maximum DC Forward Voltage	IF=10mA IF=100mA	VF	0.340 0.550	V

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

REV. 0, Aug-2011, KSHR60

RATING AND CHARACTERISTIC CURVES RB501V-40F





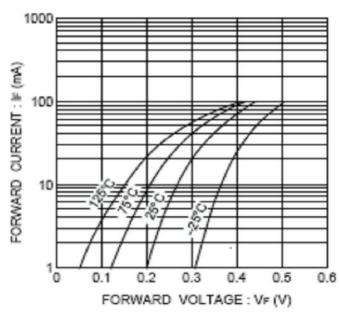


FIG.2-TYPICAL REVERSE CHARACTERISTICS

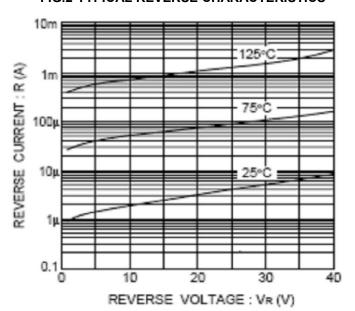


FIG.3-TYPICAL JUNCTION CAPACITANCE

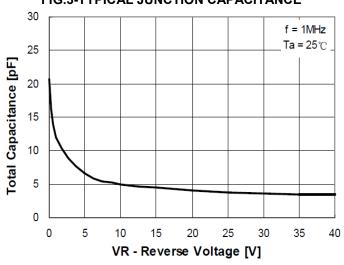
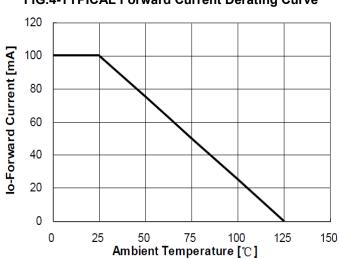


FIG.4-TYPICAL Forward Current Derating Curve



Device Marking:

Device P/N	Marking	Equivalent Circuit Diagram
RB501V-40F	B4	1 0



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