

RB521S-20 - RB521S-40

SURFACE MOUNT SCHOTTKY BARRIER DIODES

VOLTAGE RANGE: 20 - 40V CURRENT: 1.0 A

Features

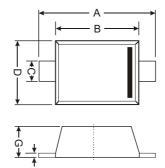
- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- For Use in Low Voltage Application
- Guard Ring Die Construction
- Plastic Case Material has UL Flammability Classification Rating 94V-O

Mechanical Data

- Case: SOD-523, Plastic
- Case material UL Flammability Rating Classification 94V-0
- Marking Code: LM
- Weight: 0.002 grams (approx.)







SOD-523					
Dim	Min	Max			
Α	1.50	1.70			
В	1.10	1.30			
С	0.25	0.35			
D	0.70	0.90			
E	0.10	0.20			
G	0.50	0.70			
All Dimensions in mm					

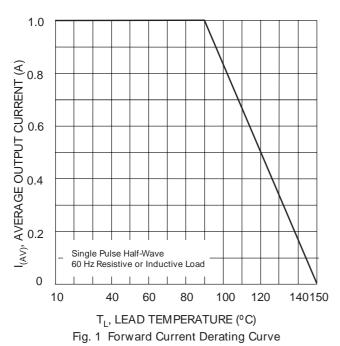
Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

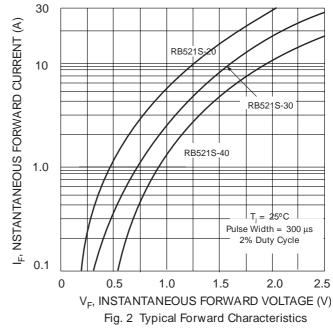
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

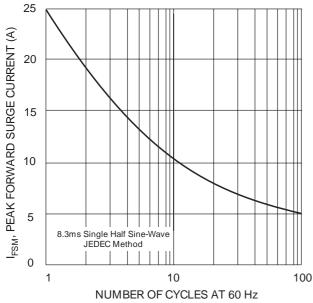
Characteristic	Symbol	RB521S-20	RB521S-30	RB521S-40	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	20	30	40	V
RMS Reverse Voltage	VR(RMS)	14	21	28	V
Average Rectified Output Current @T _L = 75°C	lo	1.0			Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30			А
Forward Voltage @I _F = 1.0A	VFM	0.38	0.38	0.40	V
	lгм	0.5 20		mA	
Typical Thermal Resistance Junction to Ambient (Note 1)	$R_{ heta}$ JA	88			K/W
Operating Temperature Range	Tj	-65 to +125			°C
Storage Temperature Range	Тѕтс	-65 to +150			°C

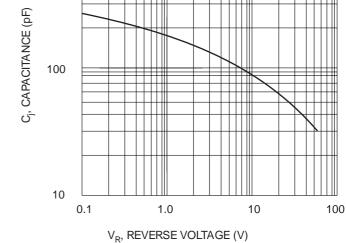
Note: 1. Mounted on P.C. Board with 5.0mm² (0.13mm thick) copper pad areas











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Fig. 3 Maximum Non-Repetitive Peak Fwd Surge Current

Fig. 4 Typical Junction Capacitance

 $T_j = 25^{\circ}C$ f = 1MHz