

SDM20U40 SCHOTTKY DIODES 2PIN 40V

DESCRIPTION

The SDM20U40 is available in SOD-523 package

ORDERING INFORMATION

Package Type	Part Number			
SOD-523	SDM20U40			
Note	SQP: 3,000pcs/Reel			
AiT provides all RoHS Compliant Products				

FEATURES

- Low Forward Voltage Drop
- Guard Ring Construction For Transient Protection
- Negligible Reverse Recovery Time
- Low Reverse Capacitance
- RoHS Compliant
- Available in SOD-523 package

PIN DESCRIPTION



APPLICATIONS

Schottky barrier switching.

REV1.0 - JUL 2014 RELEASED - -1

ABSOLUTE MAXIMUM RATINGS

@ T_A=25°C, unless otherwise specified

W Park Paretitive Park Payers Valtage	
V _{RR} , Peak Repetitive Peak Reverse Voltage	
V _{RWM} , Working Peak	40V
V _R , DC Reverse Voltage	
V _{R(RMS)} , RMS Reverse Voltage	28V
I _F , Forward Continuous Current	250mA
I _{FRM} , Repetitive Peak Forward Current @t≤1.0s	1.5A
P _D , Power Dissipation	400mW
R _{0JA} , Thermal Resistance Junction to Ambient	300°C/W
T _{STG} , Storage temperature	-65°C ~+125°C

Stresses above may cause permanent damage to the device. These are stress ratings only and functional operation of the device at these or any other conditions beyond those indicated in the Electrical Characteristics are not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

ELECTRICAL CHARACTERISTICS

@ T_A=25°C, unless otherwise specified

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Reverse Breakdown Voltage	V _{(BR)R}	I _R =10μA	40			٧
Forward voltage	VF	I _F =20mA			0.37	V
		I _F =200mA			0.60	
Reverse current	I _{RM}	V _R =30V			5.0	μΑ
Capacitance between terminals	Ст	V _R =0, f=1MHz		50		pF
Reverse Recovery Time	t _{rr}	I _R =I _F =200mA		10		ns
		I _{rr} =0.1*I _R , R _L =100Ω				

REV1.0 - JUL 2014 RELEASED - - 2 -

TYPICAL CHARACTERISTICS

0 T_A=25°C, unless otherwise specified Figure 1. Typical Forward Characteristics

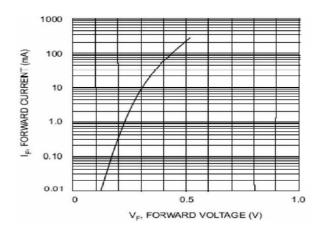
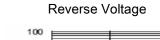
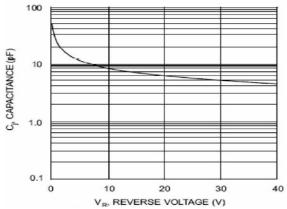


Figure 2. Typ. Junction Capacitance vs.

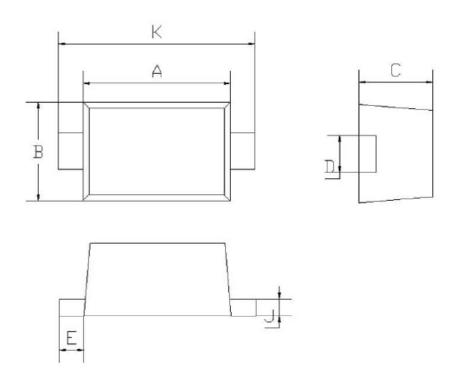




REV1.0 - JUL 2014 RELEASED - - 3 -

PACKAGE INFORMATION

Dimension in SOD-523 (Unit: mm)



DIM	MIN	MAX	
Α	1.10	1.30	
В	0.70	0.90	
С	0.50	0.70	
D	0.30 TYP		
Е	0.15	0.25	
J	0.10 TYP		
К	1.50	1.70	

REV1.0 - JUL 2014 RELEASED - - 4 -



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REV1.0 - JUL 2014 RELEASED - - 5 -