



DESCRIPTION

The B0520W~B0540W are available in SOD-323 package

ORDERING INFORMATION

Package Type Part Number				
	B0520W			
SOD-323	B0530W			
	B0540W			
Note SPQ:3,000pcs/Reel				
AiT provides all RoHS Compliant Products				

PIN DESCRIPTION



FEATURES

- Low Forward Voltage Drop
- Guard Ring Construction For Transient Protection.
- Negligible Reverse Recovery Time.
- Low Reverse Capacitance.
- RoHS Compliant
- Available in SOD-323 package

APPLICATIONS

Schotty barrier switching.

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ABSOLUTE MAXIMUM RATINGS

@ T_A=25°C, unless otherwise specified

Parameter	Symbol	B0520W	B0530W	B0540W	Unit
Peak Repetitive Peak Reverse Voltage	V_{RR}				
Working Peak	V_{RWM}	20	30	40	V
DC Reverse Voltage	V_R				
RMS Reverse Voltage	V _{R(RMS)}	14	21	28	V
Forward Continuous Current	I _F	350		mA	
Repetitive Peak Forward Current @t≤1.0s	I _{FRM}	1.5			Α
Power Dissipation	P _D	400		mW	
Thermal Resistance Junction to Ambient	R _{θJA}	300			°C/W
Storage temperature	Tstg	-65-+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
		I _R =10µA	B0520W	20			
Reverse Breakdown Voltage	V _{(BR)R}	I _R =10µA	B0530W	30	-	-	V
		I _R =10μA	B0540W	40			
Forward Voltage	\/-	I _F =20mA				0.37	v
Forward Voltage	VF	I _F =200mA		_	-	0.60	V
		V _R =10V	B0520W				
Reverse Current	I _{RM}	V _R =20V	B0530W	-	-	5.0	μΑ
		V _R =30V	B0540W				
Capacitance Between Terminals	Ст	V _R =0, f=1MHz		-	50	1	pF
Payaraa Pagayary Tima	t _{rr}	I _R =I _F =200mA,		-	10		,,,
Reverse Recovery Time		I _{rr} =0.1 x I _R , R _L =100Ω				-	ns

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SCHOTTKY DIODES SCHOTTKY BARRIER DIODES

TYPICAL CHARACTERISTICS

@ T_A=25°C, unless otherwise specified

Figure 1. Typical Forward Characteristics

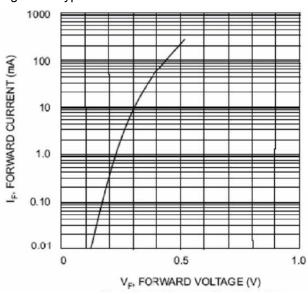
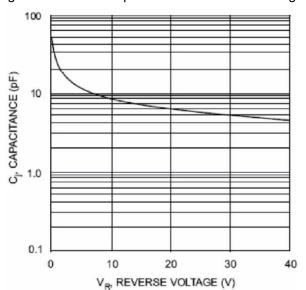


Figure 2. Junction Capacitance vs. Reverse Voltage

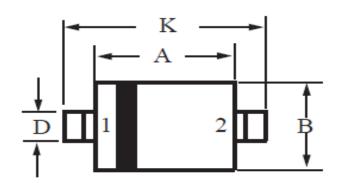


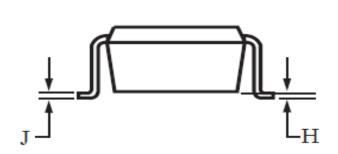
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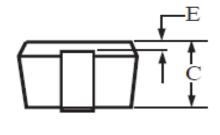


PACKAGE INFORMATION

Dimension in SOD-323 Package (Unit: mm)







DIM	MILLIMETERS		INCHES		
	MIN	MAX	MIN	MAX	
А	1.600	1.800	0.063	0.071	
В	1.150	1.350	0.045	0.053	
С	0.800	1.000	0.031	0.039	
D	0.250	0.400	0.010	0.016	
Е	0.15 REF		0.00	6 REF	
Н	0.000	0.100	0.000	0.004	
J	0.089	0.177	0.0035	0.0070	
K	2.300	2.700	0.091	0.106	

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