

DESCRIPTION

The MA728 available in SOD-323 package.

ORDERING INFORMATION

Package Type	Part Number				
SOD-323	MA728				
Note	SPQ: 3,000pcs/Reel				
AiT provides all RoHS Compliant Products					

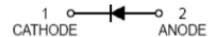
FEATURES

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

APPLICATIONS

Schottky barrier switching.

PIN DESCRIPTION



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MAXIMUM RATINGS

@ TA=25°C, unless otherwise specified

TA-23 C, unless otherwise specified	
V _{RR} , Peak Repetitive Peak Reverse Voltage	
V _{RWM} , Working Peak	30V
V _R , DC Reverse Voltage	
V _{R(RMS)} , RMS Reverse Voltage	28V
I _F , Forward Continuous Current	150mA
I _{FRM} , Repetitive Peak Forward Current @t≤ 1.0s	1.5A
P _D , Power Dissipation	400 m/W
R _{θJA} , Thermal Resistance Junction to Ambient	300°C/W
T _{STG} , Storage Temperature	−65°C to +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	Symbol	Conditions	Min.	Тур.	Max.	Unit
Reverse Breakdown Voltage	V _{(BR)R}	I _R =10μA	30			V
Forward Voltage	VF	I _F =20mA			0.4	V
		I _F =200mA			0.8	
Reverse Current	I _{RM}	V _R =30V				μА
		V _R =20V			5.0	
		V _R =10V				
Capacitance Between Terminals	Ст	V _R =0, f=1MHz		50		Α
Reverse Recovery Time	t _{rr}	I _R =I _F =200mA		10		/\
		I _{rr} =0.1*I _R , R _L =100Ω				m/W

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TYPICAL CHARACTERISTICS

Figure 1. Typical Forward Characteristics

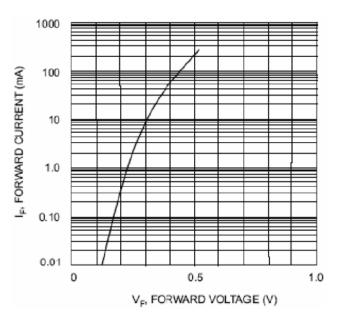
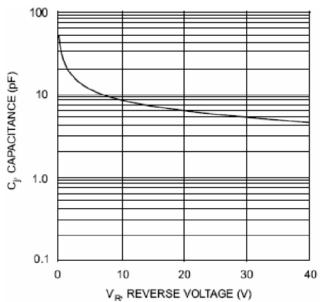


Figure 2. Typ. Junction Capacitance vs. Reverse Voltage

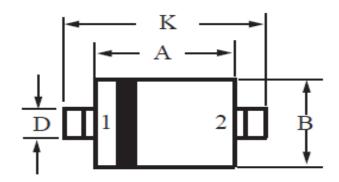


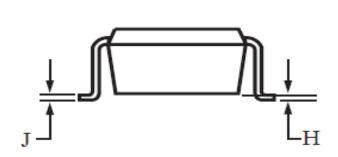
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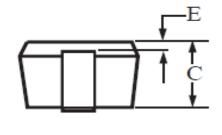


PACKAGE INFORMATION

Dimension in SOD-323 Package (Unit: mm)







DIM	MILLIM	IETERS	INCHES		
	MIN	MAX	MIN	MAX	
Α	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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