SCHOTTKY BARRIER RECTIFIER REVERSE VOLTAGE -20V to 200V FORWARD CURRENT-3A

DESCRIPTION

The SS32A_SS320A are available in SMA package.

MECHANICAL DATA

Case: SMA

 Terminals: Solderable per MIL-STD-750, Method 2026

Approx. Weight: 0.07g / 0.002oz

ORDERING INFORMATION

Package Type	Part Number		
	SS32A		
SMA	SS34A		
	SS36A		
	SS38A		
	SS310A		
	SS312A		
	SS315A		
	SS320A		
Note	SPQ: 5,000pcs/Reel		
AiT provides all RoHS Compliant Products			

FEATURE

- Metal Silicon Junction, Majority Carrier Conduction
- For Surface Mounted Applications
- Low Power Loss, High Efficiency
- High Forward Surge Current Capability
- For use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications
- Lead Free in Comply with EU RoHs 2011/65/EU Directives

PIN DESCRIPTION



PIN#	DESCRIPTION
1	CATHODE
2	ANODE

SS32A_SS320A

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ABSOLUTE MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave ,60Hz, resistive or inductive load, for capacitive load, derate by 20 %.

inductive load,	inductive load, for capacitive load, derate by 20 %.										
Param	eter	Symbo I	SS32A	SS34 A	SS36 A	SS38A	SS310 A	SS312A	SS315A	SS320 A	Unit
Maximum Rep Peak Reverse		V_{RRM}	20	40	60	80	100	120	150	200	V
Maximum RM	S Voltage	V _{RMS}	14	28	42	56	70	84	105	140	V
Maximum DC Blocking Volta		V _{DC}	20	40	60	80	100	120	150	200	V
Maximum Ave Forward Recti Current	-	I _{F(AV)}					3				Α
Peak Forward Current 8.3ms Half Sine Way Superimposed Load (JEDEC	s Single /e d on Rated	Iғsм					80				А
Maximum Inst		V _F	0.55	0.55	0.70	0.70	0.85	0.85	0.90	0.90	V
Maximum Instantaneous Reverse	T _A =25°C	lR	0.50	0.50	0.50	0.30	0.30	0.30	0.30	0.30	
Current at Rated DC Reverse Voltage	T _A =100°C		5	5	5	3	3	3	3	3	mA
Typical Juncti Capacitance (Сл	450	450	450	400	400	400	400	400	рF
Typical Thermal		Rеja	70							°C /W	
Operating Jur Temperature		TJ	T _J -55 ~ + 150				°C				
Storage Temp Range	perature	Тѕтс	-55 ~ + 150			°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.

⁽¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C

⁽²⁾ P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm)

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TYPICAL PERFORMANCE CHARACTERISTICS

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Fig 1. Forward Current Derating Curve

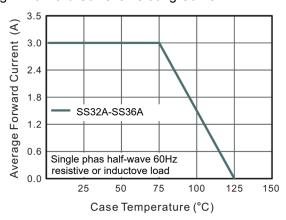


Fig 3. Typical Forward Characteristics

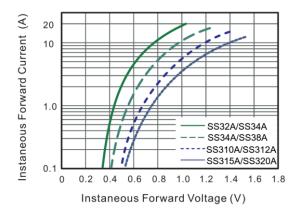


Fig 5. Maximum Non-Repetitive Peak Forward Surge Current

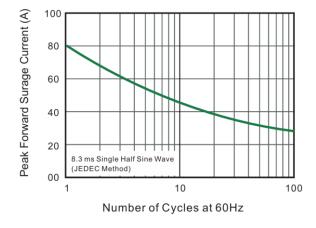


Fig 2. Typical Reverse Characteristics

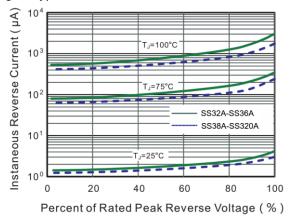


Fig 4. Typical Junction Capacitance

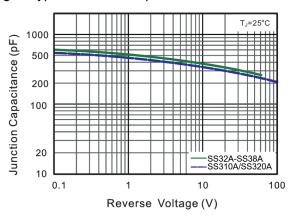
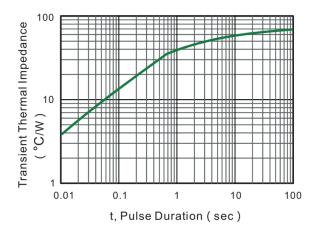


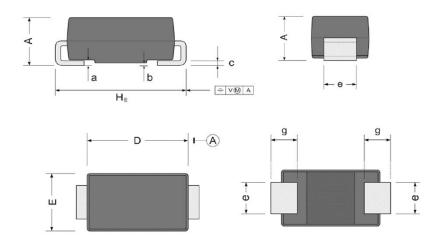
Fig 6. Typical Transient Thermal Impedance

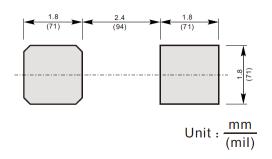


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PACKAGE INFORMATION

Dimension in SMA Package





The Recommended Mounting Pad Size

DIM	MILLIMETERS				
DIM	MIN	MAX			
Α	1.900	2.450			
а	0.300				
b	0.050	0.200			
С	0.150	0.310			
D	4.000	4.500			
E	2.500	2.800			
е	1.300	1.800			
g	0.900	1.500			
HE	4.700	5.200			

SS32A_SS320A

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