

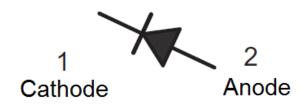
DESCRIPTION

The S1A~S1M are available in SMA package

ORDERING INFORMATION

Package Type	Part Number				
	S1A				
SMA	S1B				
	S1D				
	S1G				
	S1J				
	S1K				
	S1M				
Note	SPQ: 5,000pcs/Reel				
AiT provides all RoHS Compliant Products					

PIN DESCRIPTION



FEATURES

- For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- Easy to pick and place
- Available in SMA package

MECHANICAL DATA

Case: SMA

Terminals: Solderable per MIL-STD-750,

Method 2026

Approx. Weight: 0.055g / 0.002oz

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MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

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

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.									
Parameter	Symbol	S1A	S1B	S1D	S1G	S1J	S1K	S1M	Unit
Maximum Repetitive Peak Reverse	.,		400		400			4000	.,
Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified									
Current	I _{F(AV)} 1				Α				
Peak Forward Surge Current 8.3 ms									
Single Half Sine Wave Superimposed	I _{FSM}	I _{FSM} 35					Α		
on Rated Load									
Maximum Instantaneous Forward	\/-	V _F 1.1							V
Voltage at 1.0A	VF							V	
Maximum DC Reverse Current									
@T _A =25°C	,	5							
at Rated DC Blocking Voltage	I _R	50					μA		
@T _A =125°C									
Typical junction capacitance NOTE1	Сл	15					рF		
Typical thermal resistance NOTE2	RθJA	75					°C/W		
Operating and Storage Temperature	TJ,	55 to 150				°C			
Range	T _{STG}	-55 to 150							

NOTE1: Measured at 1 MHz and applied reverse voltage of 4 V D.C

NOTE2: P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

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TYPICAL CHARACTERISTICS

Figure 1. Forward Current Derating Curve

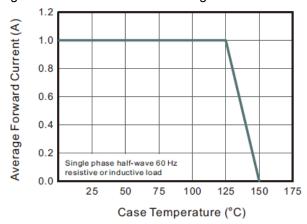


Figure 3. Typical Forward Characteristic

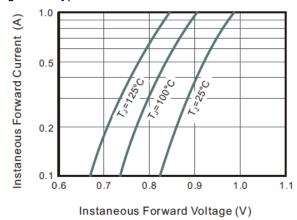


Figure 5. Maximum Non-Repetitive Peak

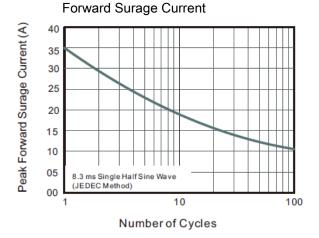


Figure 2. Typical Reverse Characteristics

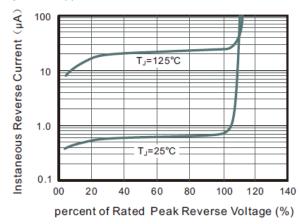
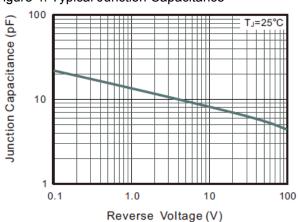


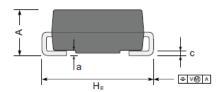
Figure 4. Typical Junction Capacitance

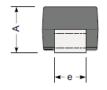


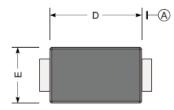
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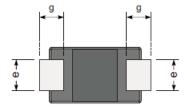
PACKAGE INFORMATION

Dimension in SMA Package (Unit: mm/mil) Plastic surface mounted package; 2 leads



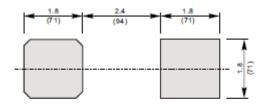






UNIT		Α	D	Е	HE	С	е	g	а
mm	max	2.2	4.5	2.7	5.2	0.31	1.6	1.5	0.0
	min	1.9	4.0	2.3	4.7	0.15	1.3	0.9	0.3
mil	max	87	181	106	205	12	63	59	40
	min	75	157	91	185	6	51	35	12

The recommended mounting pad size



Unit: $\frac{mm}{(mil)}$

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