

US2AG THRU US2MG

SURFACE MOUNT ULTRAFAST RECOVERY RECTIFIER

Reverse Voltage - 50 to 1000 V

Forward Current - 2 A

FEATURES

- · For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- Easy to pick and place
- · High efficiency
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

· Case: SMA

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

• Approx. Weight: 0.055g / 0.002oz

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 %.

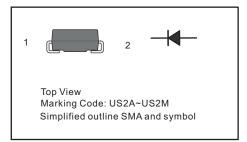
Parameter	Symbols	US2AG	US2BG	US2DG	US2GG	US2JG	US2KG	US2MG	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T_c = 125 °C	I _{F(AV)}				2				А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}				70				А
Maximum Instantaneous Forward Voltage at 2 A	V _F		1.0		1.3		1.65		٧
Maximum DC Reverse Current T _a = 25 °C at Rated DC Blocking Voltage T _a = 125 °C	I _R				5 100				μA
Maximum Reverse Recovery Time (1)	t _{rr}		5	0			75		ns
Typical Thermal Resistance (2)	$R_{ heta_{JA}} \ R_{ heta_{JC}}$	65 20			°C/W				
Operating and Storage Temperature Range	T_j , T_{stg}	-55 ~ +150				°C			

(1) Measured with $I_F = 0.5 A$, $I_R = 1 A$, $I_{rr} = 0.25 A$.

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

PINNING

PIN	DESCRIPTION			
1	Cathode			
2	Anode			



REV.08 1 of 3



US2AG THRU US2MG

Fig.1 Forward Current Derating Curve

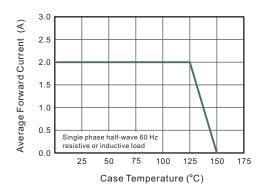


Fig.2 Typical Reverse Characteristics

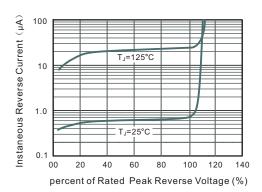


Fig.3 Typical Forward Characteristics

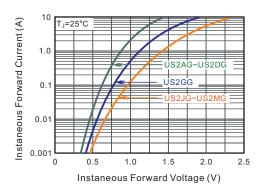
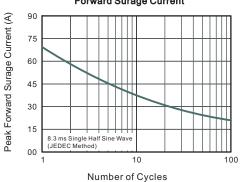


Fig.4 Maximum Non-Repetitive Peak Forward Surage Current



REV.08 2 of 3

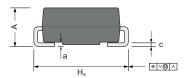


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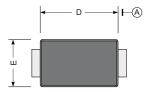
PACKAGE OUTLINE

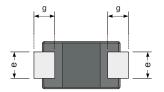
Plastic surface mounted package; 2 leads

SMA



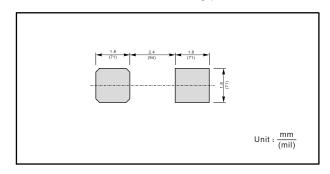






UNIT		Α	D	E	HE	С	е	g	а
mm	max	2.2	4.5	2.7	5.2	0.31	1.6	1.5	0.3
	min	1.9	4.0	2.3	4.7	0.15	1.3	0.9	
mil	max	87	181	106	205	12	63	59	12
	min	75	157	91	185	6	51	35	12

The recommended mounting pad size



Marking

Type number	Marking code				
US2AG	US2A				
US2BG	US2B				
US2DG	US2D				
US2GG	US2G				
US2JG	US2J				
US2KG	US2K				
US2MG	US2M				

REV.08 3 of 3

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