

US2A-AT THRU US2M-AT

SURFACE MOUNT 1/4" CH 5 : 5 GH RECOVERY RECTIFIERS

Forward Current-2A

Reverse Voltage-50V to 100V

FEATURES

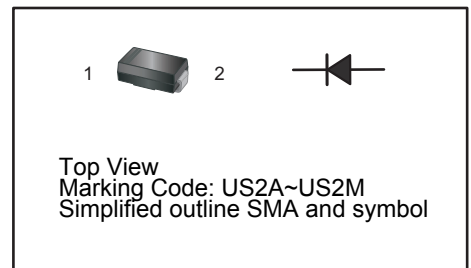
- ◆ For surface mount applications
- ◆ Glass passivated chip junction
- ◆ Low profile package
- ◆ ≤ 0.1 mm maximum height
- ◆ Lead free in comply with EU RoHS 2011/65/EU directives

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

MECHANICAL DATA

- ◆ Case: SMA
- ◆ Terminals: Solderable per MIL-STD- 750, Method 2026
- ◆ ≤ 0.1 mm maximum height



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 derating by 20 %.

PARAMETER	SYMBOL	1/4" CH 5 : 5 GH -AT	1/4" CH 5 : 5 GH -AT	1/4" CH 5 : 5 GH -AT	1/4" CH 5 : 5 GH -AT	1/4" CH 5 : 5 GH -AT	1/4" CH 5 : 5 GH -AT	1/4" CH 5 : 5 GH -AT	UNIT	
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	V	
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current at $T_C=125^\circ\text{C}$	$I_{F(AV)}$	2							A	
Peak Forward Surge Current (Note1)	I_{FSM}	50							A	
Maximum Forward Voltage at 2 A		1		1.3		1.65			V	
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_A=25^\circ\text{C}$ $T_A=125^\circ\text{C}$	I_R	5 100							μA	
Maximum Reverse Recovery Time (Note2)	T_{rr}	50				75				nS
Typical Thermal Resistance (Note3)	$R_{\theta JA}$ $R_{\theta JC}$	65 20							$^\circ\text{C/W}$	
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150							$^\circ\text{C}$	

Notes: 1. Measured at with $I_F=0.5\text{A}$, $I_R=1\text{A}$, $I_{rr}=0.25\text{A}$.

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

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RATINGS AND CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

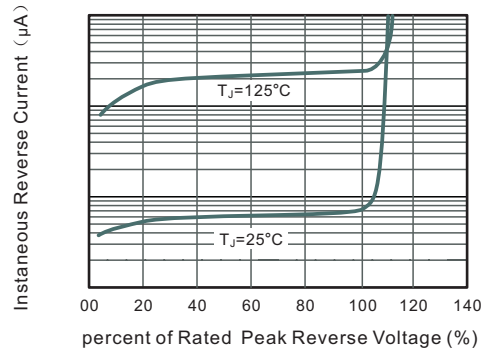
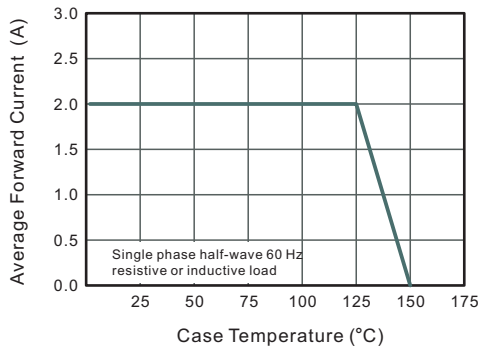


Fig.3 Typical Forward Characteristics

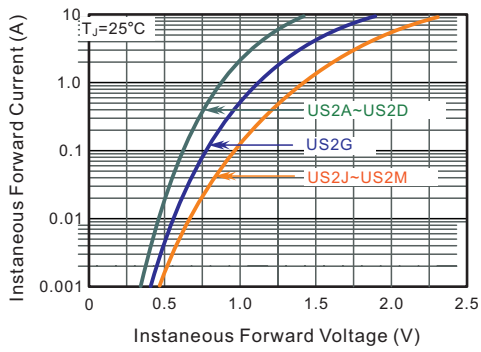
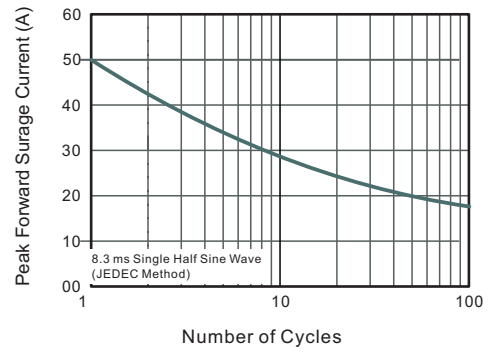


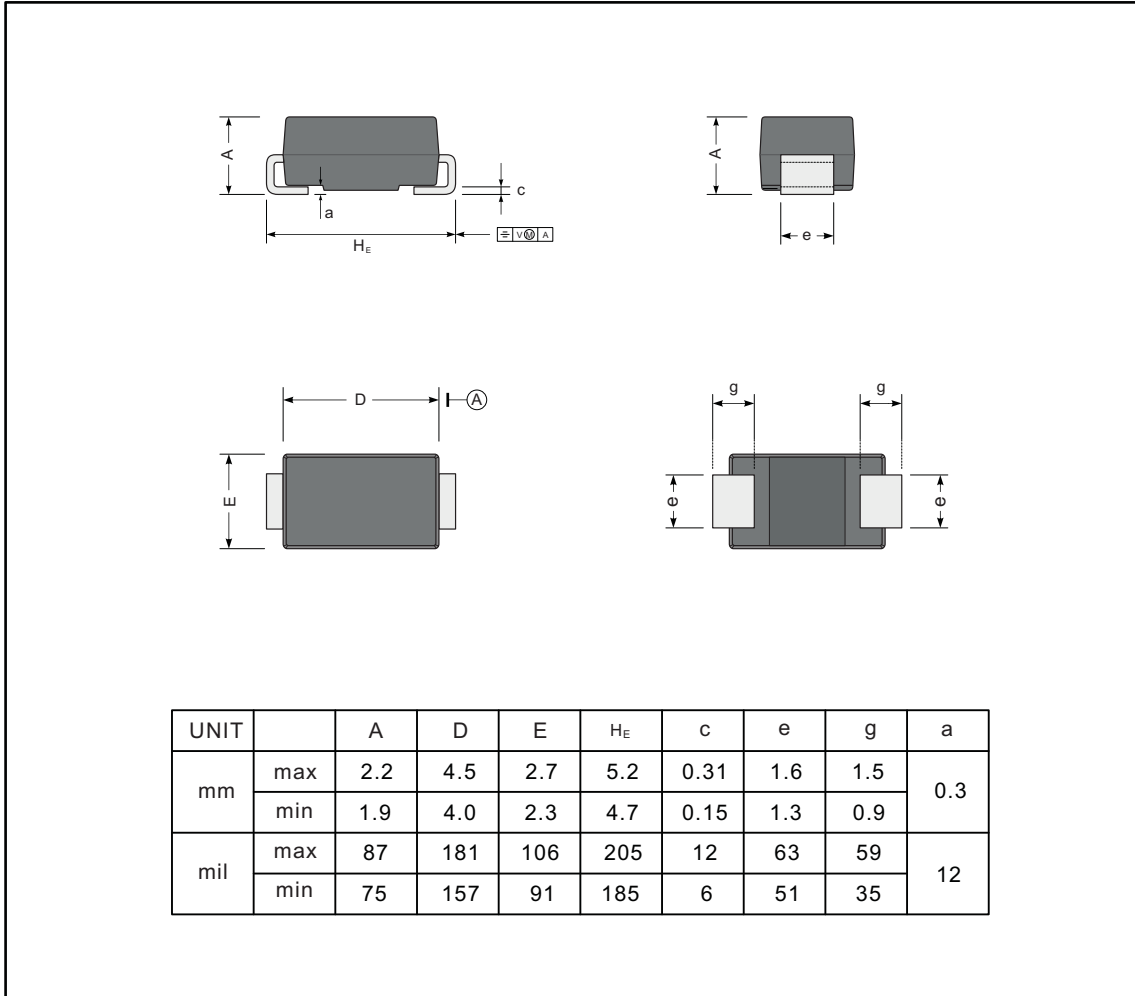
Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



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PACKAGE OUTLINE

SMA



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