



SURFACE MOUNT ULTRAFAST RECTIFIER

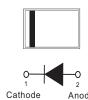
VOLTAGE 50 to 1000 Volt CURRENT 1 Ampere

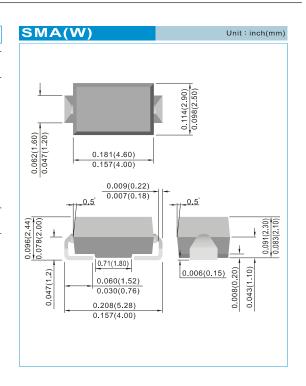
FEATURES

- For surface mounted applications in order to optimize board space
- · Easy pick and place
- · Ultrafast recovery times for high efficiency
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- · Case: SMA(W) molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: Color band denotes cathode end
- Standard packaging: 12mm tape (EIA-481)
- Weight: 0.002 ounce, 0.064 gram





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, derate current by 20%.

PARAMETER	SYMBOL	US1AW	US1BW	US1DW	US1GW	US1JW	US1KW	US1MW	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	V
Maximum RMS Voltage		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 Current at T _L =125°C	I _{F(AV)}	1						А	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	30						А	
Maximum Forward Voltage at 1A	V _F	1 1.3 1.7				V			
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	10						μА	
Typical Junction Capacitance (Notes 2)	C¹	17						pF	
Typical Thermal Resistance (Notes 3)	$R_{_{ heta JL}}$	30						°C / W	
Maximum Reverse Recovery Time (Notes 1)	t _{rr}	50 100			100		ns		
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to +150					°C		

NOTES:

- 1. Reverse recovery test conditions: I_F =0.5A, I_R =1.0A, I_{rr} =0.25A.
- 2. Measured at 1 MHz and applied $V_r = 4.0$ volts.
- 3. Mounted on infinite heatsink.

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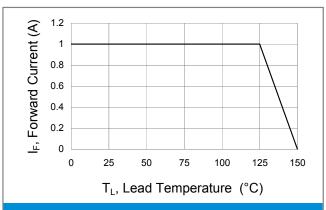


Fig.1 - Forward Current Derating Curve

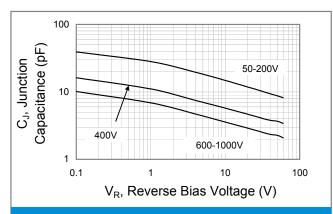


Fig.2 - Typical Junction Capacitance

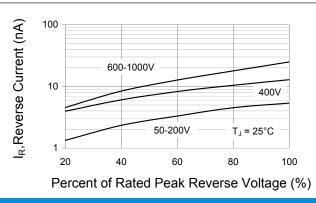


Fig.3 - Typical Reverse Characteristics

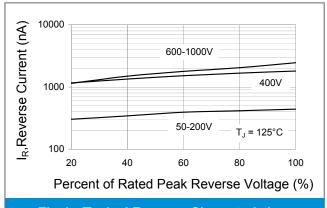


Fig.4 - Typical Reverse Characteristics

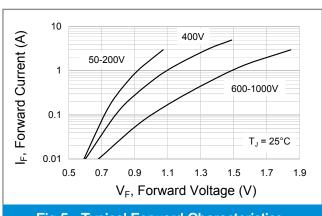


Fig.5 - Typical Forward Characteristics

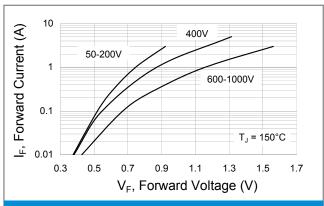
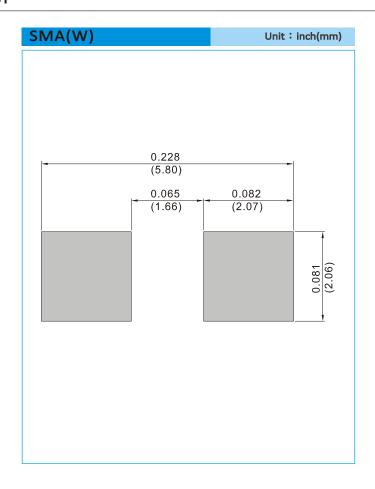


Fig.6 - Typical Forward Characteristics





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 7.5K per 13" plastic Reel

T/R - 1.8K per 7" plastic Reel





Part No_packing code_Version

US1AW_R1_00001 US1AW_R2_00001

For example:



Packing Code XX					Version Code XXXXX				
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1st Code	2 nd ~5 th Code			
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number			
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number			
Bulk Packing (B/P)	В	13"	2						
Tube Packing (T/P)	Т	26mm	X						
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y						
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U						
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D						





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