

U2A THRU U2M

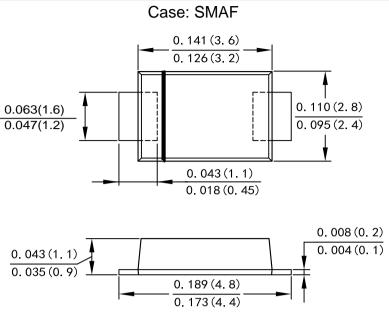
2.0AMP Surface Mount Glass Ultra Fast Rectifier

Features

- . Low cost
- Ultra fast switching for high efficiency
- High current capability
- Plastic Case Material has UL Flammability Classification Rating 94V- 0

Mechanical Data

- · Case: Molded plastic SMAF
- Terminals: Plated leads solderable per MIL-STD-750,Method 2026 guaranteed
- · Polarity: Color band dentes cathode end
- Mounting Position: Any
- Making: Type Number



Dimiensions in inches and (milimeters)

Maximum Ratings and Electrical Characteristics

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

Type Number	SYMBOL	U2A	U2B	U2D	U2G	U2J	U2K	U2M	Unit
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Average Rectified Output Current @T∟ =90 °C	IF(AV)	2.0							A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ifsm	60							A
I ² t Rating for Fusing (t < 8.3ms)	l²t	14.940							A ² S
Forward Voltage @IF=2.0A	VFM	1.0 1.3 1.7						V	
Peak Reverse Current @T _A =25 ℃	5.0								
At Rated DC Blocking Voltage @T _A =125 $^\circ\!C$	100							uA	
Maximum Reverse Recovery Time (Note 1)	Trr	50 75						ns	
Typical Junction Capacitance (Note 2)	С	15							pF
Typical Thermal Resistance Junction to Ambient(Note 3)	Re ja Re jl Re jc	105 15 23							℃/W
Operating Temperature Range	TJ	-55 to+150							°C
Storage Temperature Range	Tstg	-55 to +150							°C

Note:

1.Reverse Recovery Test Conditions:IF=0.5A,IR=1.0A,IRR=0.25A.

2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

3.Device mounted on FR-4 substrate, 1"*1", 2oz, single-sided, PC boards with 0.06"*0.09" copper pad. For reference only



FIG.1MAXIMUM AVERAGE FORWARD CURRENT DERATING

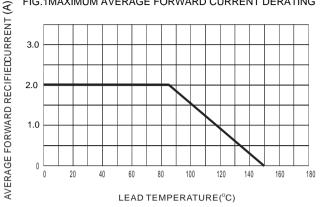


FIG.3MAXIMUM NON-REPEITIVE SURGE CURRENT

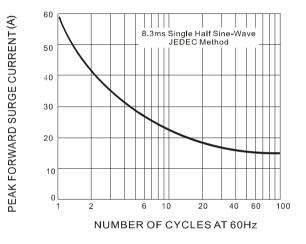
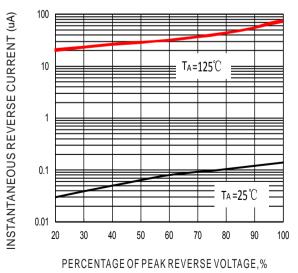
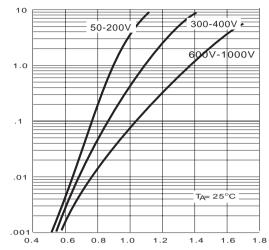


FIG.5TYPICAL REVERSE CHRACTERISTICS





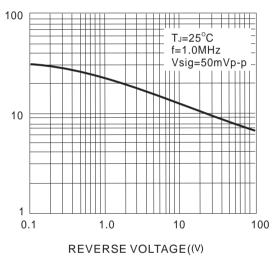


INSTANTANEOUS FORWARD CURRENT(A)

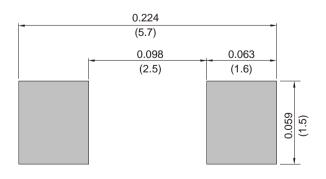
JUNCTION CAPACITANCE (pF)

INSTANTANEOUS FORWARD VOLTAGE (V)

FIG.4TYPICAL JUNCTION CAPACITANCE









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