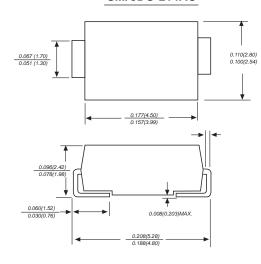


# **US2A THRU US2M**

#### SURFACE MOUNT ULTRA FAST RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 2.0 Amperes

#### SMA/DO-214AC



Dimensions in inches and (millimeters)

#### **FEATURES**

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- Ultra fast switching for high efficiency
- ◆ Low reverse leakage
- ◆ Built-in strain relief,ideal for automated placement
- ◆ High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds at terminals

#### **MECHANICAL DATA**

Case: JEDEC DO-214AC molded plastic body Terminals: leads solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.002 ounce, 0.07 grams

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

MDD Catalog Number	SYMBOLS	US2A	US2B	US2D	US2G	US2J	US2K	US2M	UNITS
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at TL=75°C	l(AV)				2.0				Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	lfsm	50.0							Amps
Maximum instantaneous forward voltage at 2.0A	VF		1.0		1.4		1.7		Volts
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=125℃	lR	5.0 350.0						μΑ	
Maximum reverse recovery time (NOTE 1)	trr		50	)			75		ns
Typical junction capacitance (NOTE 2)	Cı		28.0						pF
Typical thermal resistance (NOTE 3)	RθJA		20.0						°C/W
Operating junction and storage temperature range	ТЈ,Тѕтс	-50 to +150							°C

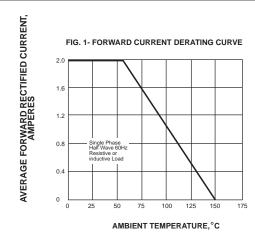
Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

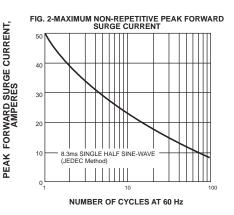
2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

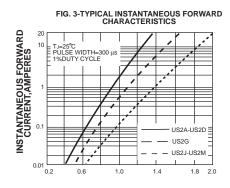
3.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

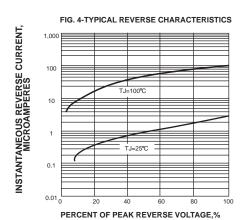


### RATINGS AND CHARACTERISTIC CURVES US2A THRU US2M

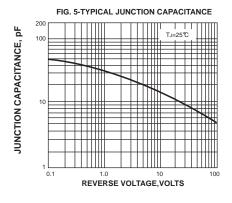


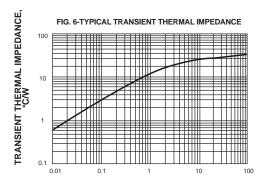












t,PULSE DURATION,sec.

The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!



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