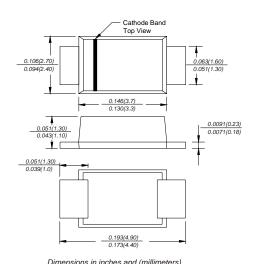


US2AF THRU US2MF

SURFACE MOUNT ULTRA FAST RECTIFIER

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

SMAF



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 260°C/10 seconds at terminals
- Glass passivated chip junction

MECHANICAL DATA

Case: JEDEC SMAF molded plastic body over passivated chip **Terminals**: Solder plated, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.0018 ounce, 0.064 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	US2AF	US2BF	US2DF	US2GF	US2JF	US2KF	US2MF	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=55℃	l(AV)	2.0						Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	50.0							Amps
Maximum instantaneous forward voltage at 2.0A	VF	1.0 1.4			1.4	1.7			Volts
Maximum DC reverse current Ta=25°C at rated DC blocking voltage Ta=100°C	lr	5.0 50.0						μΑ	
Maximum reverse recovery time (NOTE 1)	trr		50 75					ns	
Typical junction capacitance (NOTE 2)	Cı	20.0						pF	
Typical thermal resistance (NOTE 3)	Reja	50.0						°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

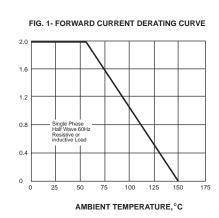
2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

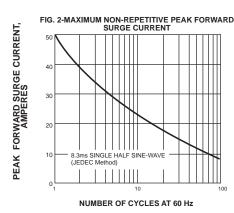
3.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

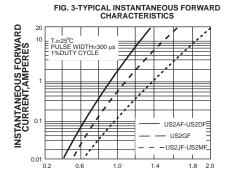


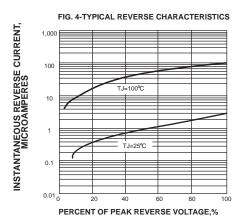
RATINGS AND CHARACTERISTIC CURVES US2AF THRU US2MF



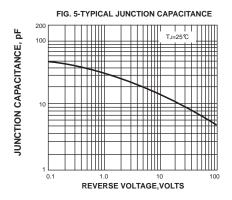


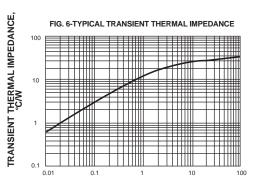












t,PULSE DURATION,sec.

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

