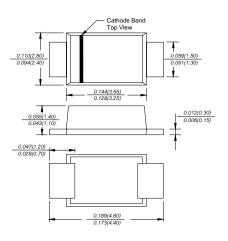
US2AAF THRU US2MAF

SURFACE MOUNT ULTRA FAST RECTIFIER

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

SMAF



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 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: 0.0014 ounce, 0.038 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%.

	SYMBOLS	US2AAF	US2BAF	US2DAF	US2GAF	US2JAF	US2KAF	US2MAF	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°C	l(AV)				2.0				Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	İFSM				50.0				Amps
Maximum instantaneous forward voltage at 2.0A	VF		1.0		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)	RθJA	95.0						°C/W	
Operating junction and storage temperature range	Тл,Тѕтс	-55 to +150						°C	

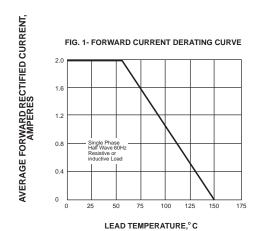
Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

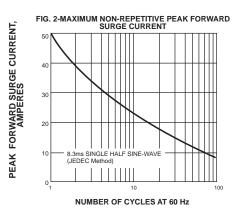
2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

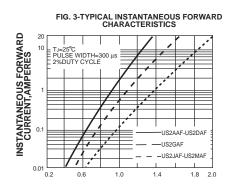
3.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

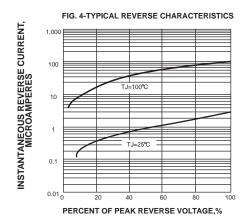


RATINGS AND CHARACTERISTIC CURVES US2AAF THRU US2MAF

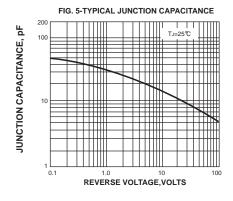


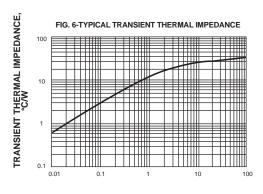












t,PULSE DURATION,sec.

