U1AF~U1MF 1.0Amp Surface Mount High Efficiency Rectifiers

Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ 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
- Glass passivated chip junction

Mechanical Data

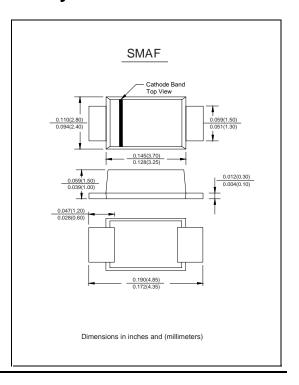
Case: JEDEC SMAF molded plastic body

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 $25\,^{\circ}$ C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

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	SYMBOLS	U1AF	U1BF	U1DF	U1GF	U1JF	U1KF	U1MF	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	I(AV)				1.0				Amp
Peak forward surge current									
8.3ms single half sine-wave superimposed on	I _{FSM} 30.0						Amps		
rated load (JEDEC Method)									
Maximum instantaneous forward voltage at 1.0A	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)	Сл	15.0					pF		
Typical thermal resistance (NOTE 3)	Rөja	50.0						°C/W	
Operating junction and storage temperature range	Т _J ,Тsтg	-65 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