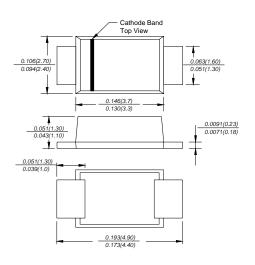


# **ES1AF THRU ES1JF**

#### SURFACE MOUNT SUPER FAST RECTIFIER

Reverse Voltage - 50 to 600 Volts Forward Current - 1.0 Ampere

#### **SMAF**



Dimensions in inches and (millimeters)

# **FEATURES**

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Super 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	ES1AF	ES1BF	ES1CF	ES1DF	ES1EF	ES1GF	ES1JF	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	150	200	300	400	600	VOLTS
Maximum RMS voltage	VRMS	35	70	105	140	210	280	420	VOLTS
Maximum DC blocking voltage	VDC	50	100	150	200	300	400	600	VOLTS
Maximum average forward rectified current at TL=55℃	l(AV)	1.0							Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	30.0							Amps
Maximum instantaneous forward voltage at 1.0A	VF	0.95 1.25 1				1.7	Volts		
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=100℃	lr	5.0 50.0							μΑ
Maximum reverse recovery time (NOTE 1)	trr	35							ns
Typical junction capacitance (NOTE 2)	Сл	15.0							pF
Typical thermal resistance (NOTE 3)	RθJA	60.0							°C/W
Operating junction and storage temperature range	Т <sub>Ј</sub> ,Тѕтс	-50 to +150							°C

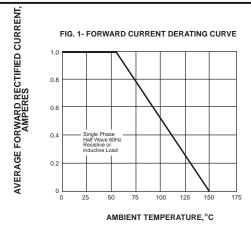
Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

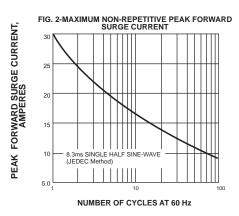
2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

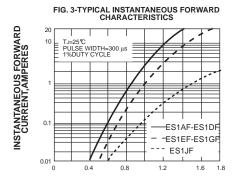
3.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

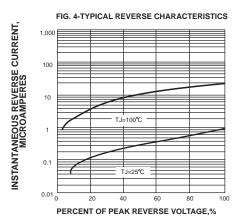


# RATINGS AND CHARACTERISTIC CURVES ES1AF THRU ES1JF

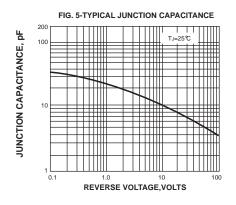


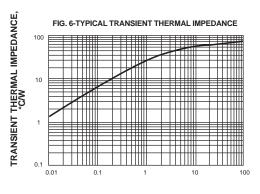












t,PULSE DURATION,sec.

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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