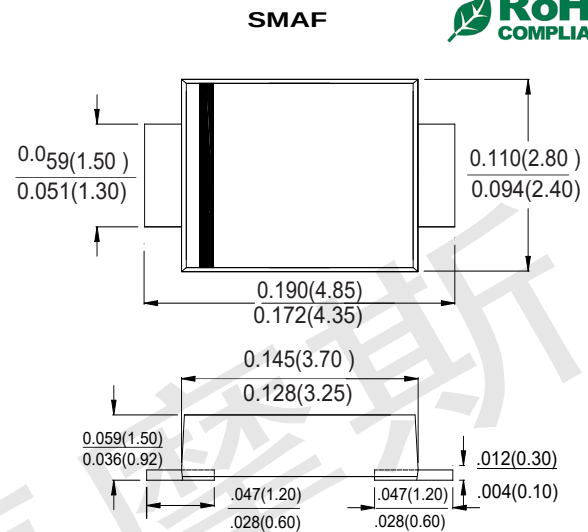


FEATURES

- For surface mounted applications
- Low profile package
- Built-in strain relief
- Easy pick and place
- Low forward voltage drop
- Plastic package has Underwriters Laboratory
- Flammability Classification 94V-O
- High temperature soldering : 260°C /10 seconds at terminals

MECHANICAL DATA

- Case: JEDEC SMAF, molded plastic over passivated chip
- Terminals: Solder plated, solderable per
- MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end



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, derate current by 20%.

Type Number	Symbols	S1AF	S1BF	S1DF	S1GF	S1JF	S1KF	S1MF	Units
Maximum Recurrent 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 .375" (9.5mm) Lead Length @ T _A =25°C	I(AV)	1.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	IFSM	30							Amp
Maximum instantaneous Forward Voltage @ 1.0A	V _F	1.1							Volts
Maximum Reverse Current T _A =25°C At Rated DC Blocking Voltage T _A =100°C	I _R	5.0 100							uAmp
Typical Junction Capacitance (Note 1)	C _J	28							pF
Typical Thermal Resistance (Note 2)	R _{θJL}	20							°C/W
Operating Temperature Range T _J	T _J	-55 to +150							°C
Storage Temperature Range	T _{stg}								

NOTES:

1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
2. Thermal resistance from junction to ambient mounted on P.C.B. with 0.2 x 0.2" (5.0 x 5.0mm) copper pad areas

Ordering Information (Example)

Preferred P/N	Package code	Unit weight(g)	Minimum Package(pcs)	Inner box Quantity(pcs)	Outer carton quantity(pcs)	Delivery mode
SMAF SMA DO-214AC	F1	Approximate 0.034	3000	12000	96000	7" reel
	F2	Approximate 0.034	10000	20000	160000	13" reel
	F4	Approximate 0.034	7500	15000	120000	13" reel

RATINGS AND CHARACTERISTIV CURVES



FIG.1: FORWARD CURRENT DERATING CURVE

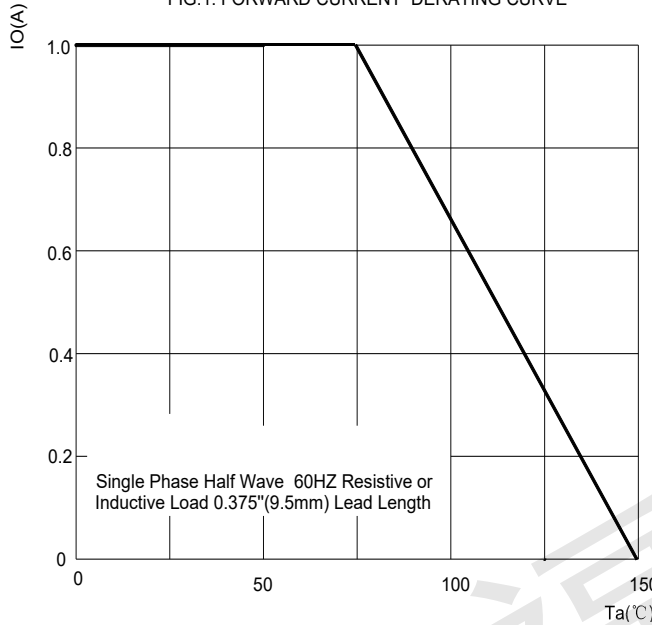


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

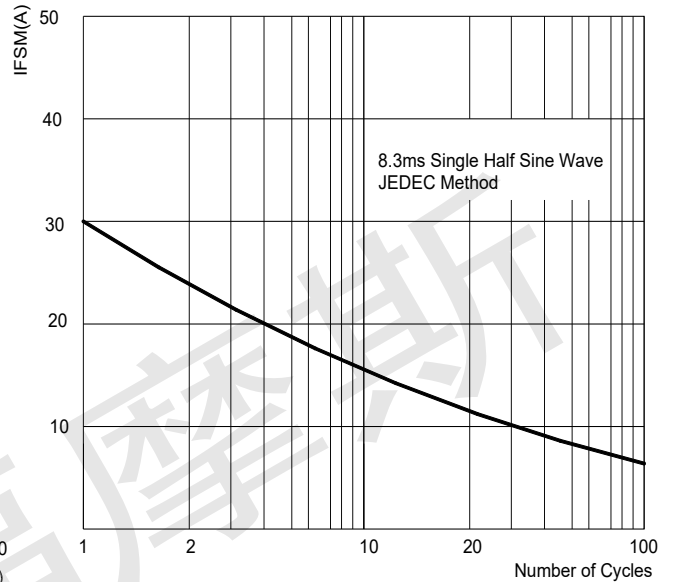


FIG.3: TYPICAL FORWARD CHARACTERISTICS

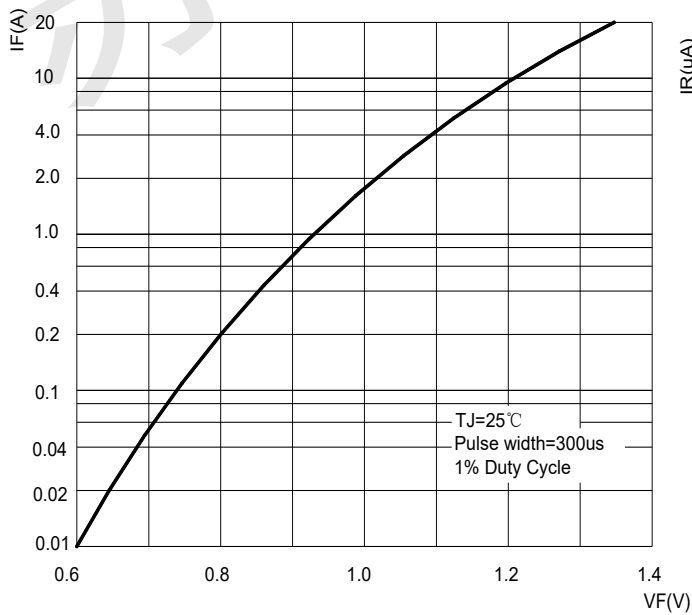


FIG.4: TYPICAL REVERSE CHARACTERISTICS

