

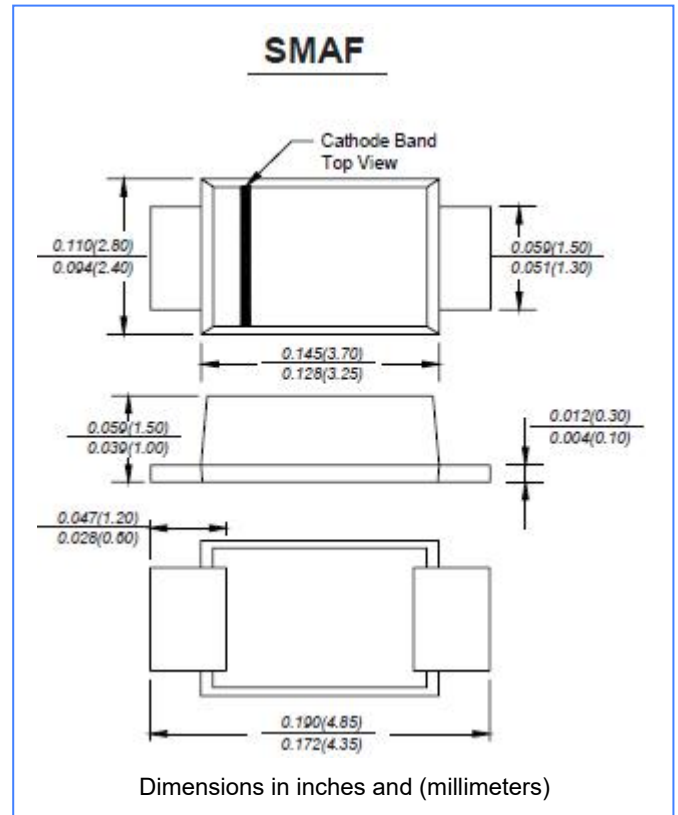
## SS32F thru SS320F

### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low power loss,high efficiency
- Built-in strain relief,ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 250 C/10 seconds at terminals

### 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 C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	SS32AF SK32AF	SS33AF SK33AF	SS34AF SK34AF	SS35AF SK35AF	SS36AF SK36AF	SS38AF SK38AF	SS310AF SK310AF	SS3150AF SK3150AF	SS320AF SK320AF	UNITS	
Maximum repetitive peak reverse voltage	$V_{RRM}$	20	30	40	50	60	80	100	150	200	VOLTS	
Maximum RMS voltage	$V_{RMS}$	14	21	28	35	42	56	70	105	150	VOLTS	
Maximum DC blocking voltage	$V_{DC}$	20	30	40	50	60	80	100	150	200	VOLTS	
Maximum average forward rectified current at TL(see fig.1)	$I_{(AV)}$	3.0									Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	100.0									Amps	
Maximum instantaneous forward voltage at 3.0A	$V_F$	0.55			0.70		0.85		0.95		Volts	
Maximum DC reverse current $T_A=25$ C at rated DC blocking voltage $T_A=100$ C	$I_R$	0.5							0.2		mA	
		20					10		2.0			
Typical junction capacitance (NOTE 1)	$C_J$	500				300				pF		
Typical thermal resistance (NOTE 2)	$R_{qJA}$	55.0									$^{\circ}C/W$	
Operating junction temperature range	$T_J$	-65 to +125					-65 to +150					$^{\circ}C$
Storage temperature range	$T_{STG}$	-65 to +150									$^{\circ}C$	

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

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

Ratings And Characteristic Curves

FIG. 1- FORWARD CURRENT DERATING CURVE

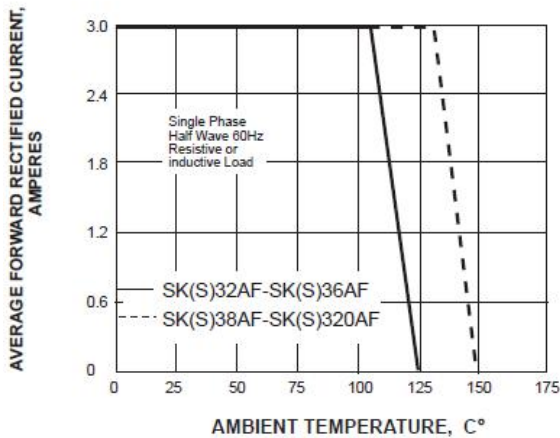


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

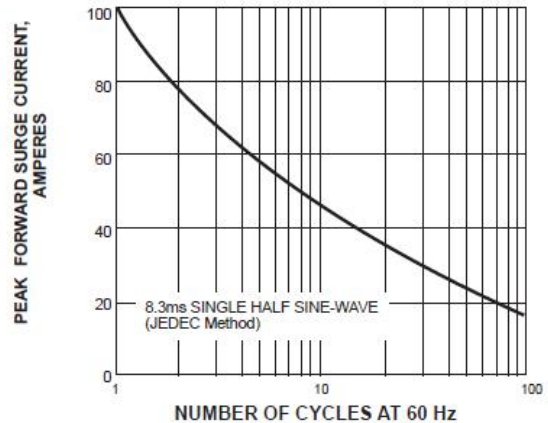


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

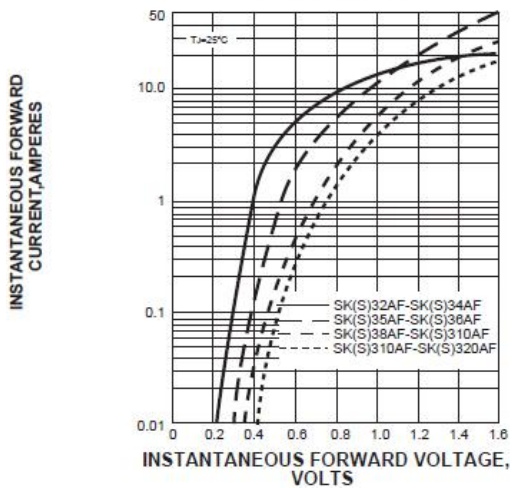


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

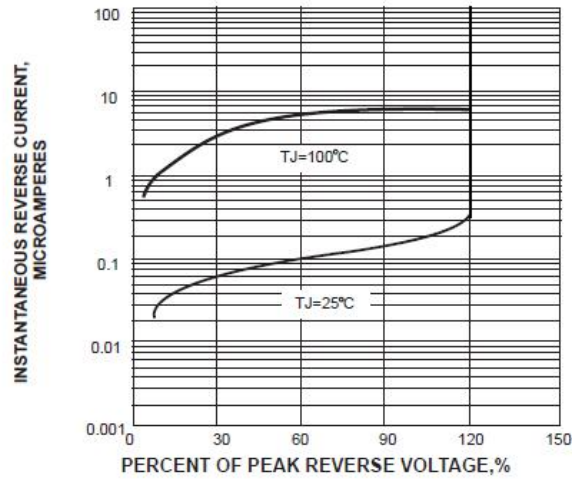


FIG. 5-TYPICAL JUNCTION CAPACITANCE

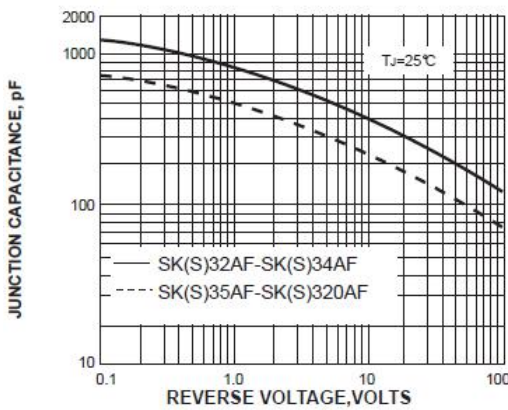


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE

