

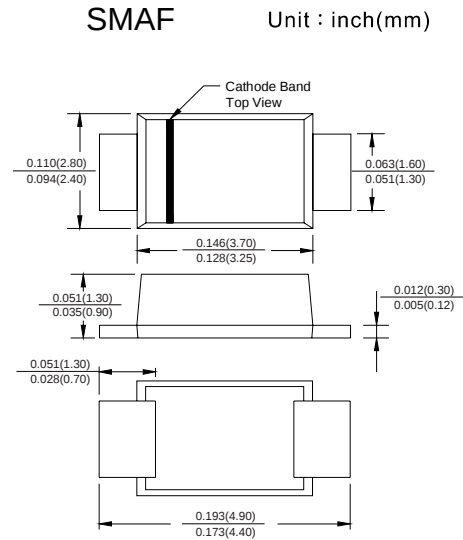
SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER Reverse Voltage - 20 to 200 Volts Forward Current - 3.0 Amperes

Features

- ▽ Plastic package has Underwriters Laboratory Flammability
- ▽ Classification 94V-O
- ▽ For surface mounted applications in order to optimize board space
- ▽ Lowpower loss, high efficiency
- ▽ Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)
- ▽ Green molding compound as per IEC61249 Std. . (Halogen Free)
- ▽ AEC-Q101 qualified (Automotive grade with suffix "Q".)
- ▽ Expsemi electronics

Mechanical Data

- ▽ Case : JEDEC SMAF molded plastic
- ▽ Terminals : Solder plated, solderable per MIL-STD-750,Method 2026
- ▽ Polarity : Color band denotes cathode end
- ▽ Standard packaging : 12mm tape (EIA-481)



Dimensions in inches and (millimeters)

Maximum Ratings ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Number	SYMBOLS	SS 32AF	SS 33AF	SS 34AF	SS 35AF	SS 36AF	SS 38AF	SS 310AF	SS 315AF	SS 320AF	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	140	VOLTS
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	150	200	VOLTS
Maximum average forward rectified current at T _L (see fig.1)	I _(AV)	3.0									Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	80.0									Amps
Maximum instantaneous forward voltage at 3.0A	V _F	0.50	0.65	0.75	1			1.2	Volts		
Maximum DC reverse current T _A =25 C° at rated DC blocking voltage T _A =100 C°	I _R	20			1			uA			
		400			200						
Typical thermal resistance (NOTE 1)	R _{θJA}	55.0									°C/W
Operating junction temperature range	T _J	-50 to +150			-50 to +175			°C			
Storage temperature range	T _{STG}	-50 to +150			-50 to +175			°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

FIG. 1- FORWARD CURRENT DERATING CURVE

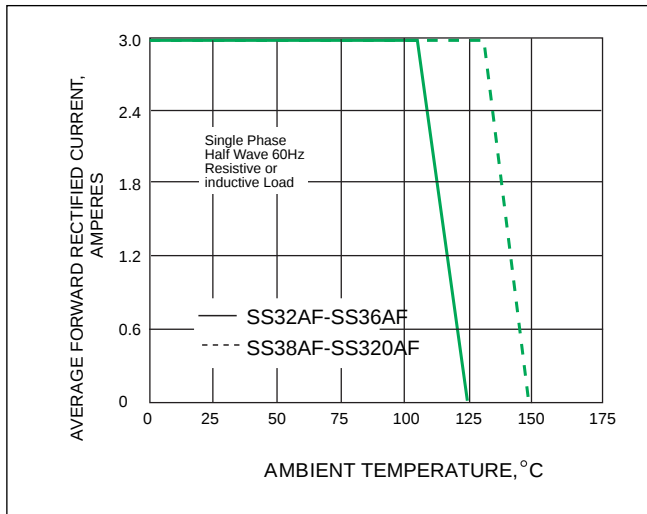


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

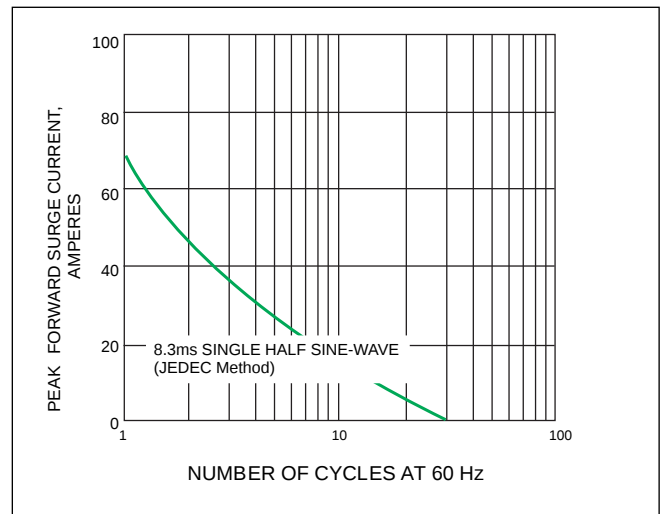


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

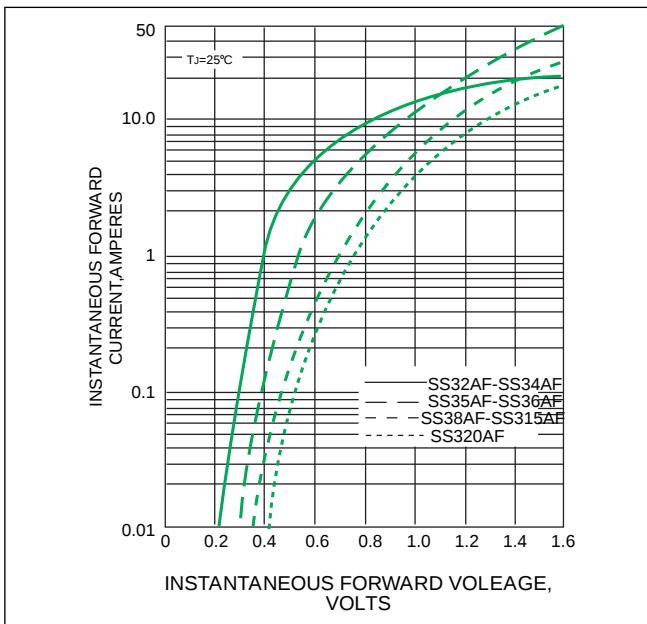


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

