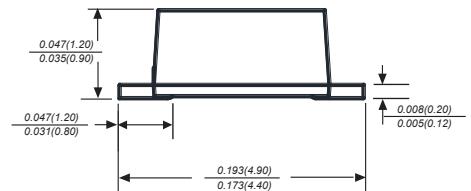
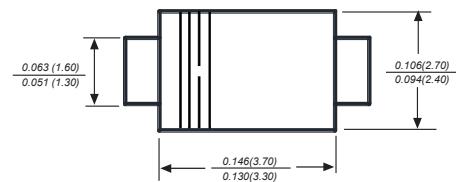


SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ Metal silicon junction,majority carrier conduction
- ◆ Low power loss,high efficiency
- ◆ Built-in strain relief,ideal for automated placement
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed:
260 °C/10 seconds at terminals

SMAF



Mechanical Data

Case*: JEDEC SMAF molded plastic body

Terminals*: Solderable per MIL-STD-750, Method 2026

Polarity*: Color band denotes cathode end

Mounting Position*: Any

Weight : 0.0018 ounce, 0.064 grams

Dimensions in inches and (millimeters)

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%.

Parameter	SYMBOLS	SS32F	SS33F	SS34F	SS35F	SS36F	SS38F	SS310F	SS3150F	SS3200F	UNITS		
Marking Code		MDD SS32F	MDD SS33F	MDD SS34F	MDD SS35F	MDD SS36F	MDD SS38F	MDD SS310F	MDD SS3150F	MDD SS3200F			
Maximum repetitive peak reverse voltage	V _{RMM}	20	30	40	50	60	80	100	150	200	V		
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	V		
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	150	200	V		
Maximum average forward rectified current at TL(see fig.1)	I _(AV)	3.0								A			
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	80								A			
Maximum instantaneous forward voltage at 3.0A	V _F	0.55		0.70		0.85		0.95	V				
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =125°C	I _R	0.5				20.0		10	0.2		mA		
Typical junction capacitance (NOTE 1)	C _J	500		300							pF		
Typical thermal resistance (NOTE 2)	R _{θJA}	55.0								°C/W			
Operating junction temperature range	T _J	-55 to +125								°C			
Storage temperature range	T _{STG}	-55 to +150								°C			

Note:1.Measured at 1.0MHz and applied reverse voltage of 4.0V D.C.

2.P.C.B. mounted with 2.0x2.0"(5.0x5.0cm) copper pad areas.

3.The typical data above is for reference only.

SS32F THRU SS3200F

Reverse Voltage - 20 to 200 Volts Forward Current - 3.0 Ampere

Typical Characteristics

AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES

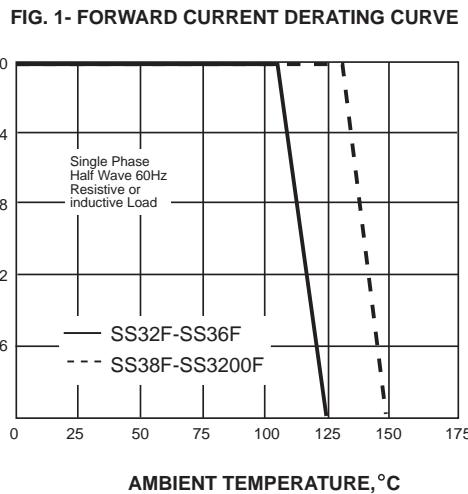


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

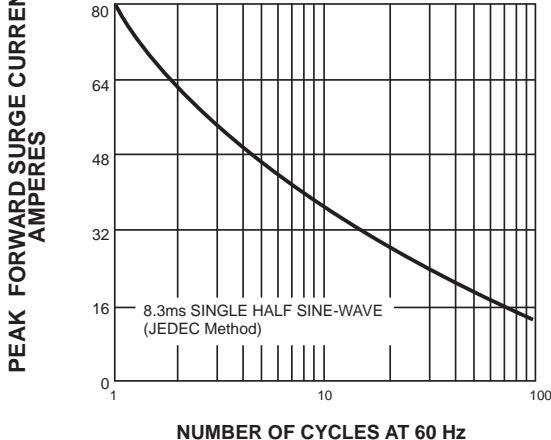


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

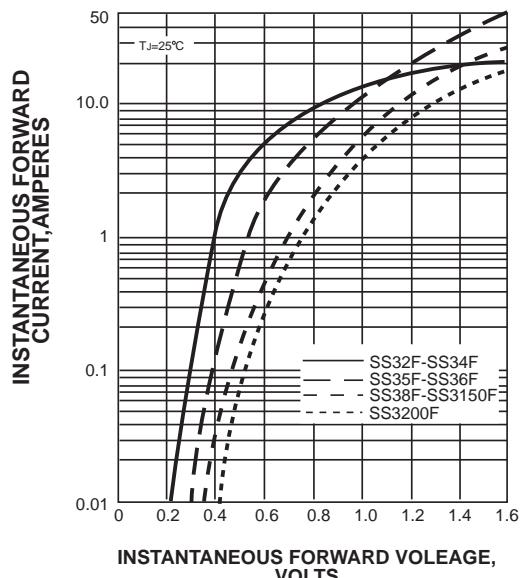


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

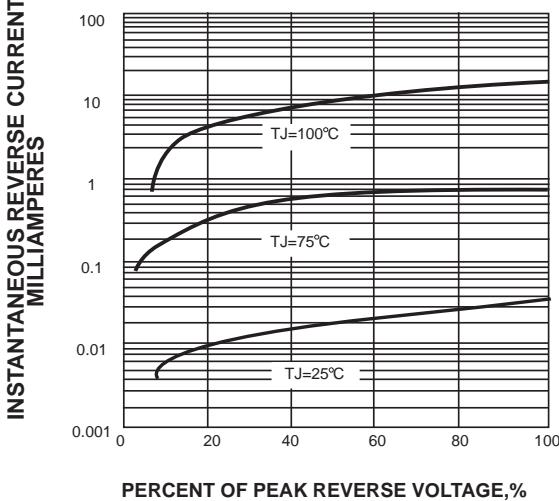


FIG. 5-TYPICAL JUNCTION CAPACITANCE

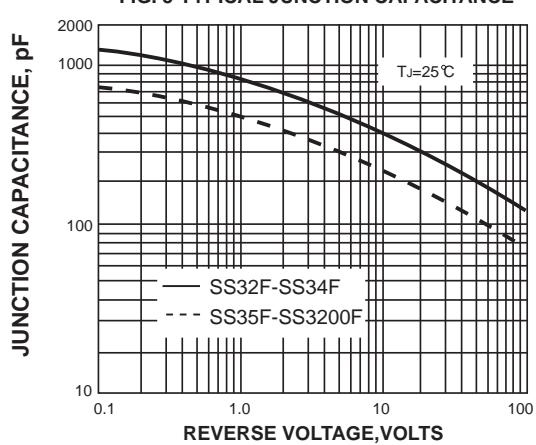
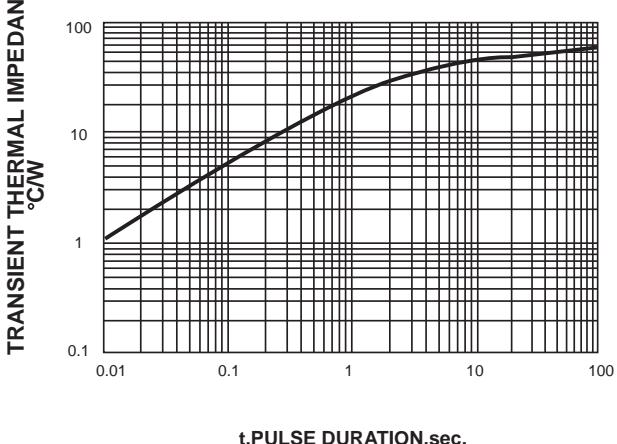


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



The curve above is for reference only.