

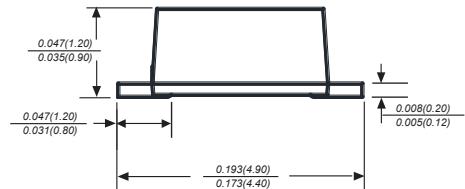
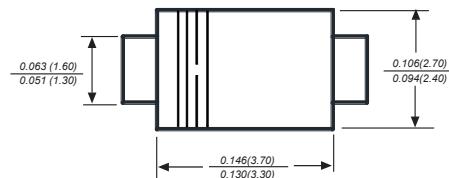
SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

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

 ROHS
COMPLIANT



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	SS22F	SS23F	SS24F	SS25F	SS26F	SS28F	SS210F	SS2150F	SS2200F	UNITS
Marking Code		MDD SS22F	MDD SS23F	MDD SS24F	MDD SS25F	MDD SS26F	MDD SS28F	MDD SS210F	MDD SS2150F	MDD SS2200F	
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)										A
Peak forward surge current 8.3ms single half sine-wave superimposed onrated load (JEDEC Method)	I _{FSM}										A
Maximum instantaneous forward voltage at 2.0A	V _F		0.55		0.70		0.85		0.95		V
Maximum DC reverse current T _A =25°C at rated DCblocking voltage T _A =125°C	I _R			0.5				0.2			mA
				10.0			5.0		2.0		
Typical junction capacitance (NOTE 1)	C _J		160				80				pF
Typical thermal resistance (NOTE 2)	R _{θJA}				75.0						°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.

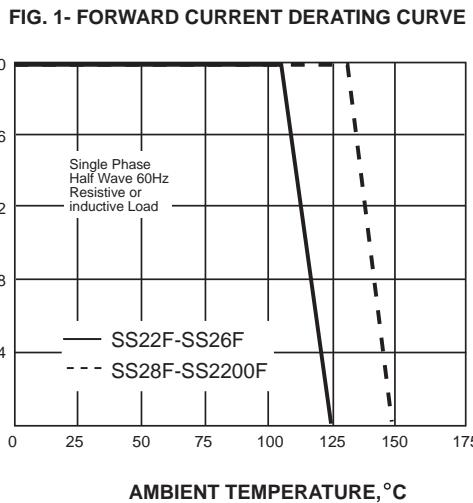
3.The typical data above is for reference only.

SS22F THRU SS2200F

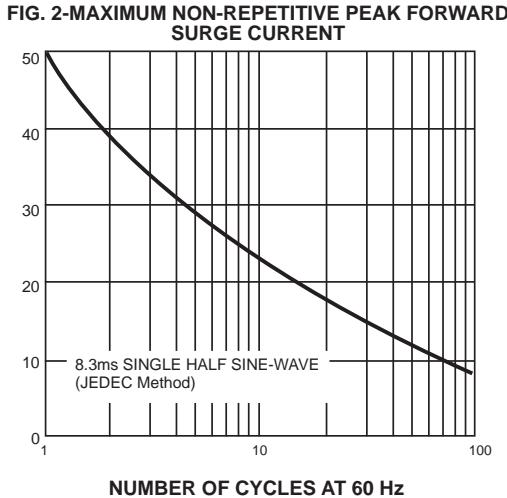
Reverse Voltage - 20 to 200 Volts Forward Current - 2.0 Ampere

Typical Characteristics

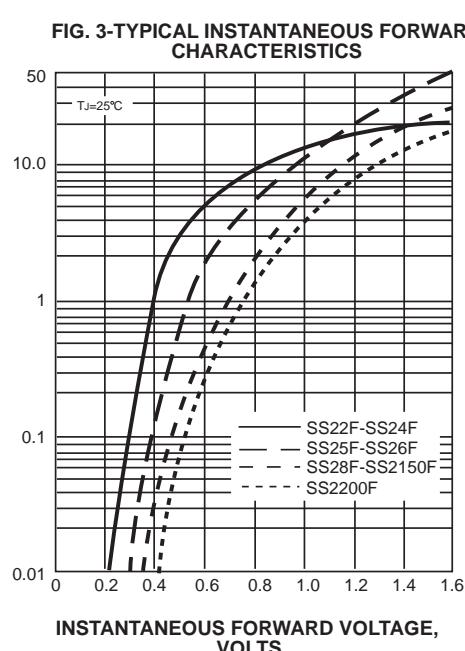
AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES



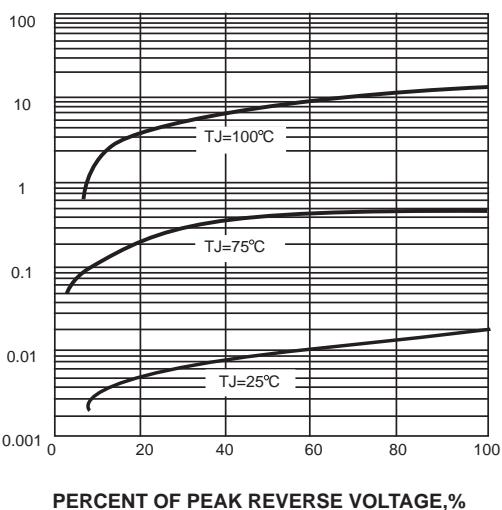
PEAK FORWARD SURGE CURRENT,
AMPERES



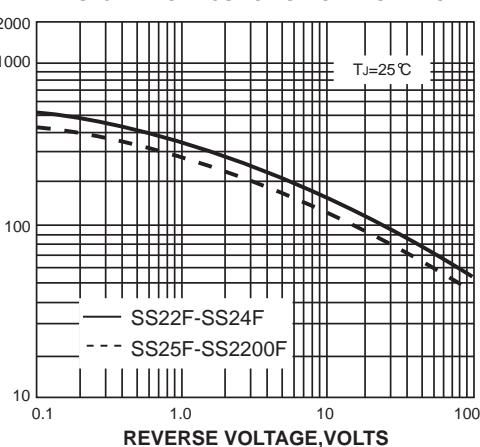
INSTANTANEOUS FORWARD
CURRENT, AMPERES



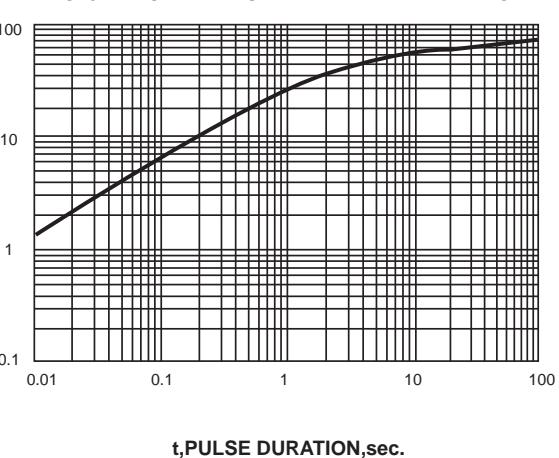
INSTANTANEOUS REVERSE CURRENT,
MILLIAMPERES



JUNCTION CAPACITANCE, pF



TRANSIENT THERMAL IMPEDANCE,
°C/W



The curve above is for reference only.