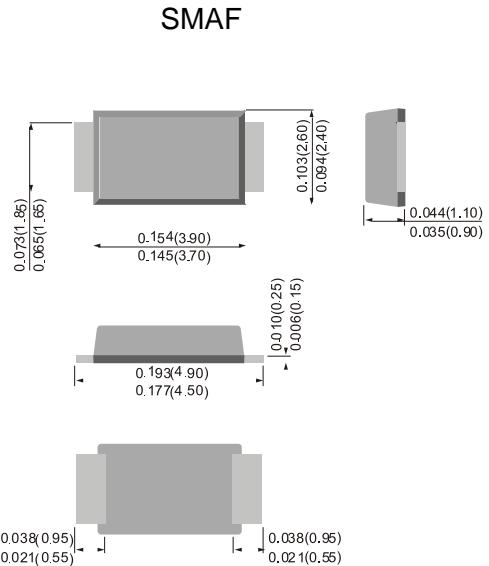


SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER
VOLTAGE 20-60 Volts
CURRENT 1 Amperes
FEATURES

- For surface mounted applications
- Low profile package
- Built-in strain relief
- Low power loss, high efficiency
- Metal to silicon rectifier, majority carrier conduction
- High surge capacity
- High current capacity, low V_F
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

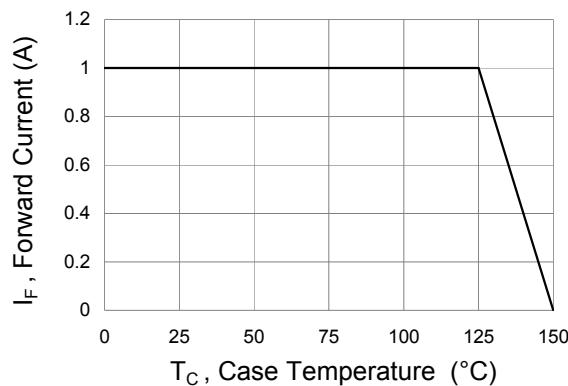
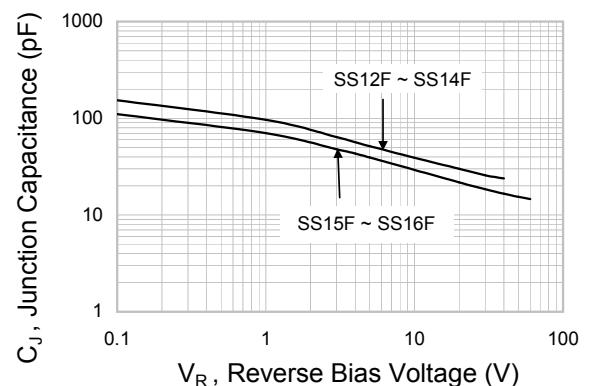
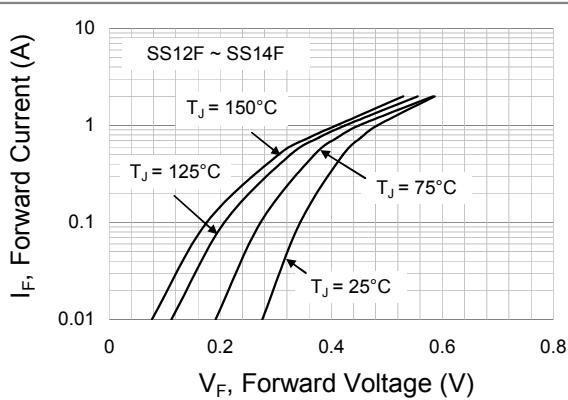
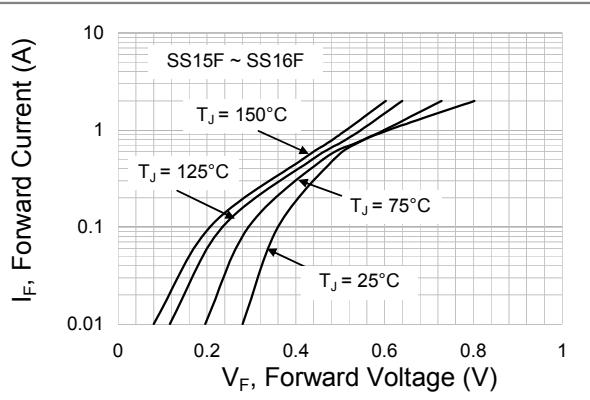
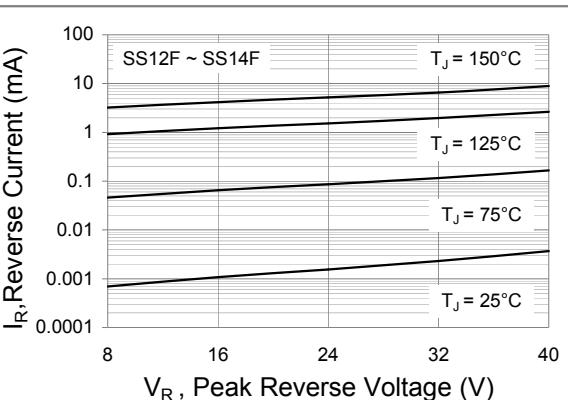
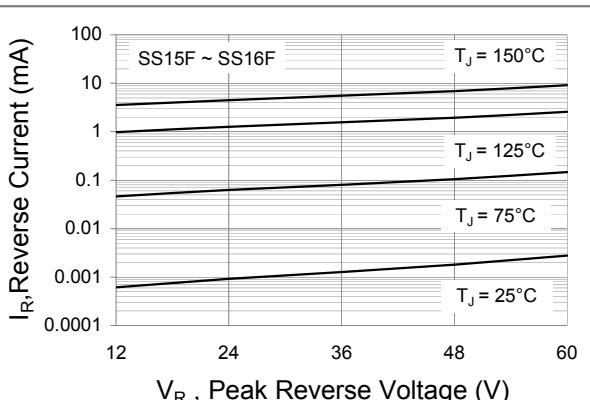
MECHANICAL DATA

- Case: SMAF molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : Color band denotes cathode end
- Approx. Weight: 0.0011 ounces, 0.0328 grams


MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	SS12F	SS13F	SS14F	SS15F	SS16F	UNITS		
Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	V		
RMS Voltage	V_{RMS}	14	21	28	35	42	V		
DC Blocking Voltage	V_R	20	30	40	50	60	V		
Average Forward Current	$I_{F(AV)}$	1					A		
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	30					A		
Forward Voltage at 1.0A	V_F	0.5		0.7		V			
DC Reverse Current at Rated DC Blocking Voltage	I_R	0.2		0.1		mA			
Typical Junction capacitance	C_J	45					pF		
Typical Thermal Resistance ,Junction to Lead (Note 1) Junction to Ambient (Note 2)	$R_{\theta JL}$ $R_{\theta JA}$	18 150					$^\circ\text{C} / \text{W}$		
Operating Junction Temperature and Storage Temperature Range	T_J, T_{STG}	-55 to +150					$^\circ\text{C}$		

NOTES : 1. Mounted on an FR4 PCB, single-sided copper, with 48cm^2 copper pad area
 2. Mounted on an FR4 PCB, single-sided copper, mini pad.

RATING AND CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

Fig.2 Typical Junction Capacitance

Fig.3 Typical Forward Characteristics

Fig.4 Typical Forward Characteristics

Fig.5 Typical Reverse Characteristics

Fig.6 Typical Reverse Characteristics