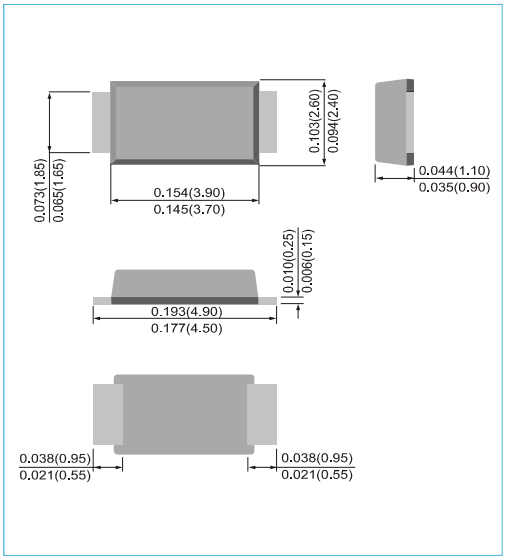
SS12F SERIES

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 20-60 Volt **CURRENT** 1 Ampere

SMAF Unit : inch(mm)

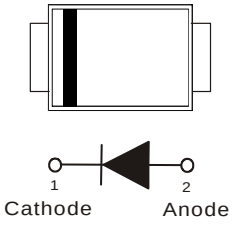


FEATURES

- For surface mounted applications in order to optimize board space
- Ultra Thin Profile Package for Space Constrained Utilization
- Package suitable for Automated Handling
- Low power loss, high efficiency
- High surge capacity
- High current capacity , low V_F
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Lead free in compliance with EU RoHS 2011/65/EU directive.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: Plastic molded
- 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°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	I_{FSM}	30					A
Forward Voltage at 1A	V_F	0.5			0.7		V
DC Reverse Current at Rated DC Blocking Voltage T_J=25°C	I_R	0.2			0.1		mA
Maximum DC Reverse Current at Rated DC Blocking Voltage T_J=100°C	I_R	5					mA
Typical Junction capacitance V_R=4V,f=1MHz	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					°C / W
Operating Junction Temperature and Storage Temperature Range	T_J,T_{STG}	-55 to +150					°C

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

SS12F SERIES

RATING AND CHARACTERISTIC CURVES

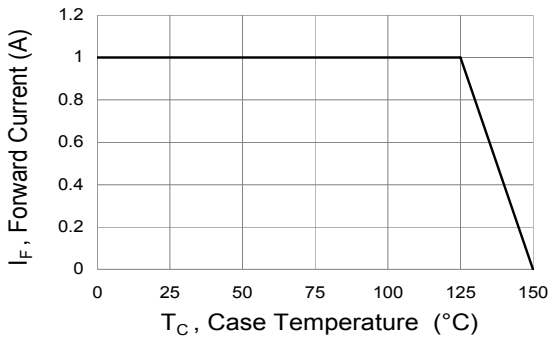


Fig.1 Forward Current Derating Curve

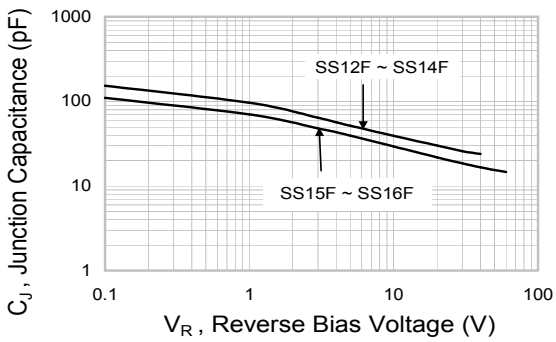


Fig.2 Typical Junction Capacitance

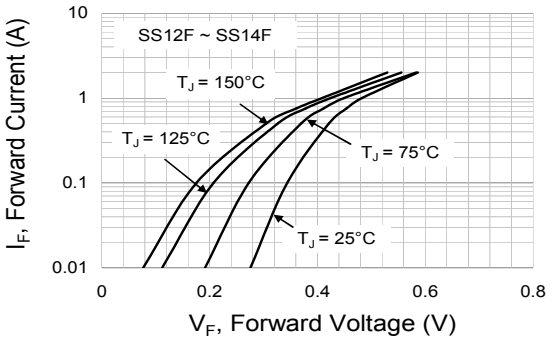


Fig.3 Typical Forward Characteristics

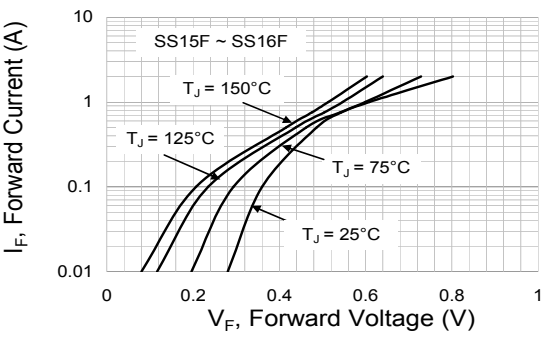


Fig.4 Typical Forward Characteristics

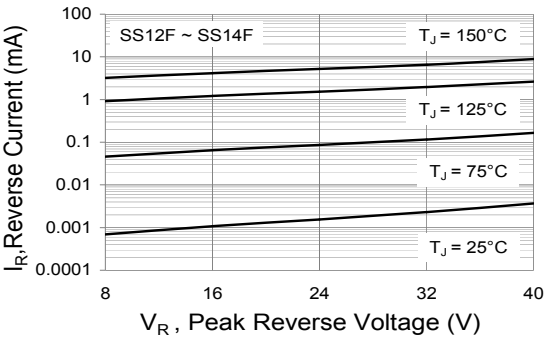


Fig.5 Typical Reverse Characteristics

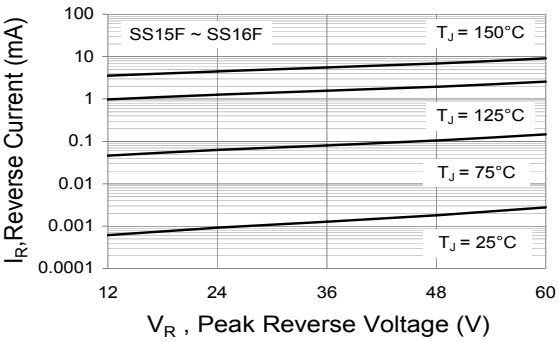


Fig.6 Typical Reverse Characteristics

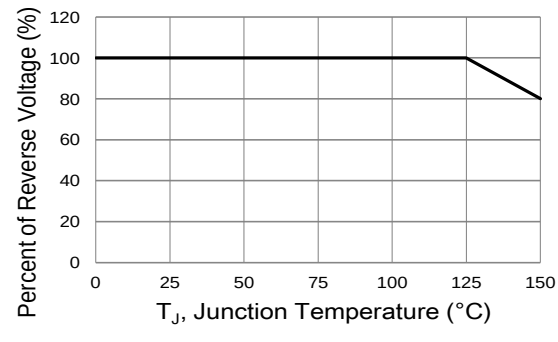
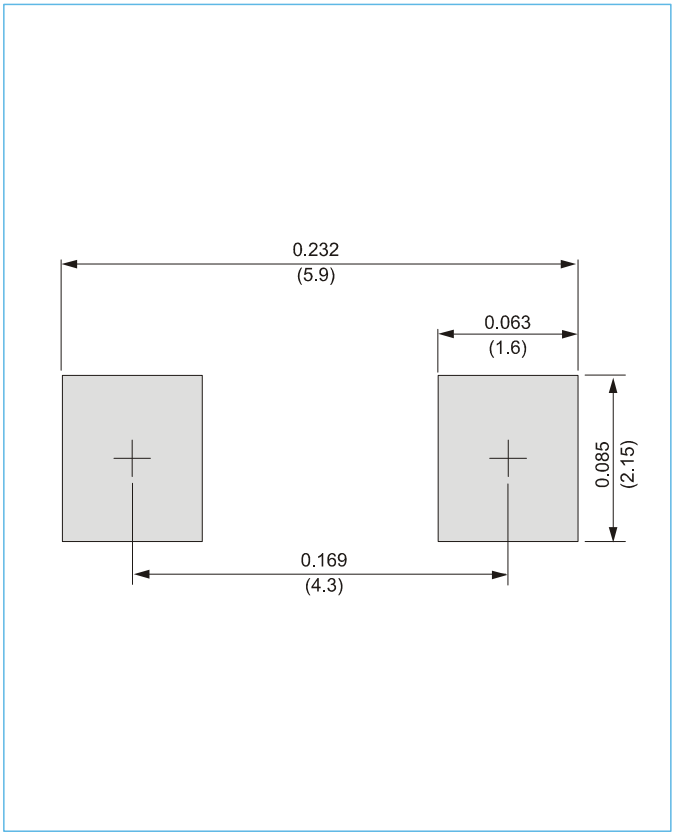


Fig.7 Operating Temperature Derating Curve

SS12F SERIES

MOUNTING PAD LAYOUT

SMAF Unit:inch(mm)



ORDER INFORMATION

- Packing information

  T/R - 10K per 13" plastic Reel

  T/R - 3K per 7" plastic Reel

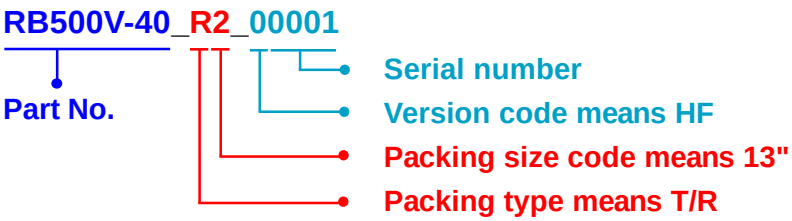
SS12F SERIES

Part No_packing code_Version

SS12F_R1_00001

SS12F_R2_00001

For example :



Packing Code XX				Version Code XXXXX		
Packing type	1st Code	Packing size code	2nd Code	HF or RoHS	1st Code	2nd~5th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			

SS12F SERIES

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