Unit : inch(mm)

0.044(1.10)

0.103(2.60)

0.038(0.95)

0.154(3.90)

004/7

SS12F SERIES

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

20-60 Volt CURRENT 1 Ampere

Ampere SMAF

0.073(1.85) 0.065(1.65)

0.038(0.95)

-

FEATURES

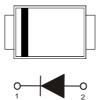
VOLTAGE

• 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 VF
- 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



Cathode Anode

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=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					А
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			.7	V	
DC Reverse Current at Rated DC Blocking Voltage	T_=25°C	I _R		0.2 0.1		.1	mA	
Maximum DC Reverse Current at Rated DC Blocking Voltage	T=100°C	I _R	5				mA	
Typical Junction capacitance	VR=4V,f=1MHz	C	45				рF	
Typical Thermal Resistance ,Junction to Lead (Note 1) Junction to Ambient (Note 2)		R _{ejl} R _{eja}	18 150					°C / W
Operating Junction Temperature and Storage Temperature Range		T_,T _{STG}	-55 to +150					°C

NOTES : 1. Mounted on a FR4 PCB, single-sided copper, with 48cm² copper pad area

2. Mounted on a FR4 PCB, single-sided copper, mini pad.



100

0.8

T_J = 125°C

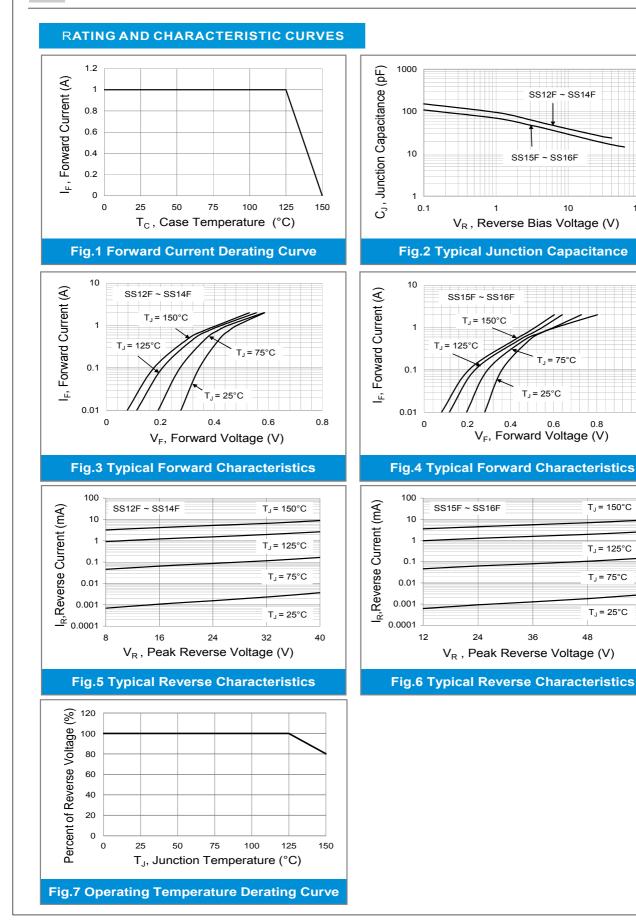
T_J = 75°C

T_J = 25°C

60

1

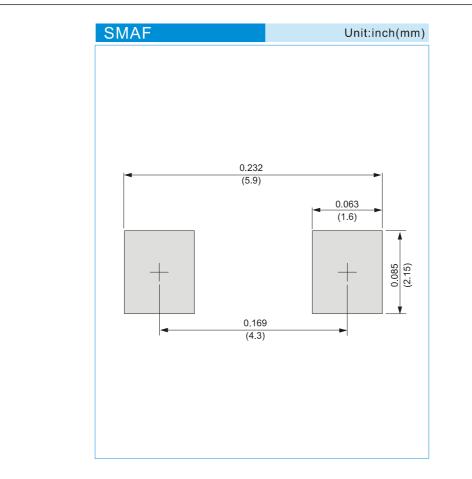
SS12F SERIES





SS12F SERIES

MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R 10K per 13" plastic Reel
 - T/R 3K per 7" plastic Reel





Part No_packing code_Version

SS12F_R1_00001 SS12F_R2_00001

For example :

RB500V-40_R2_00001



Packing type means T/R

Packing Code XX				Version Code XXXXX				
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code		
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number		
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number		
Bulk Packing (B/P)	В	13"	2					
Tube Packing (T/P)	т	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					





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