MS18F SERIES

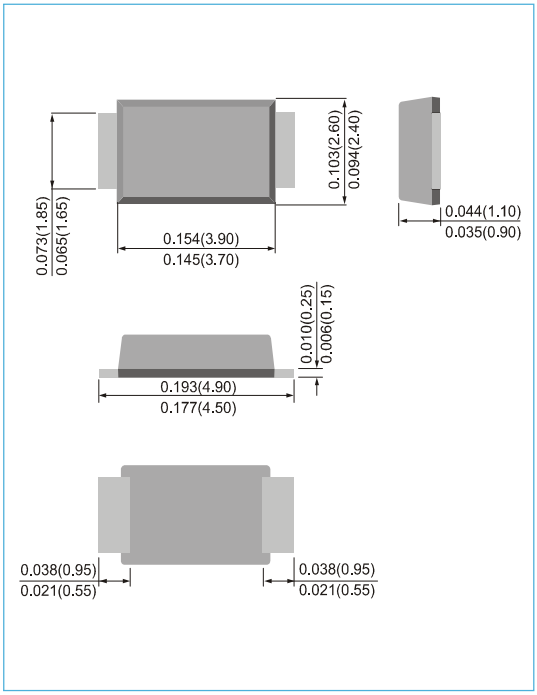
SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 80-200 Volts **CURRENT** 1 Ampere

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal to silicon rectifier. majority carrier conduction
- Low power loss,high efficiency
- High surge capacity
- High current capacity ,low V_F
- 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)

SMAF Unit : inch(mm)



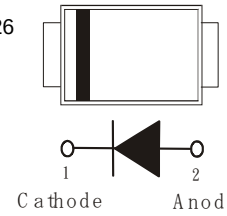
MECHANICAL DATA

Case : SMAF, Plastic

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

Polarity: Color band denotes cathode end

Weight: 0.0011 ounces, 0.0328 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	MS18F	MS19F	MS110F	MS120F	UNITS
Recurrent Peak Reverse Voltage	V_{RRM}	80	90	100	200	V
RMS Voltage	V_{RMS}	56	63	70	140	V
DC Blocking Voltage	V_R	80	90	100	200	V
Average Forward Current	$I_{F(AV)}$	1.0				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	0.8			0.9	V
DC Reverse Current at Rated DC Blocking Voltage	I_R	0.05				mA
Typical Thermal Resistance ,Junction to Lead (Note 1) Junction to Ambient (Note 1)	$R_{\theta JL}$ $R_{\theta JA}$	19 83				°C/W
Operating Junction Temperature and Storage Temperature Range	T_J,T_{STG}	-55 to +150				°C

NOTES:

1.Mounted on 48cm^2 FR-4 PCB.

MS18F SERIES

RATING AND CHARACTERISTIC CURVES

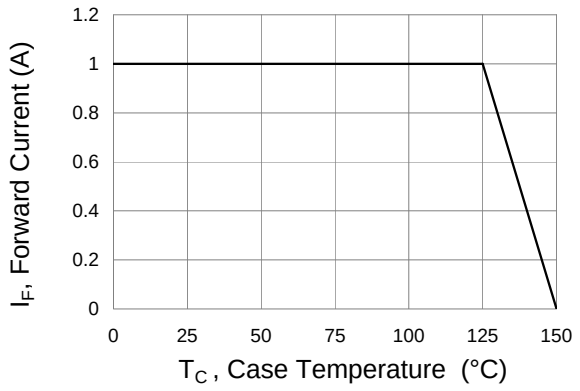


Fig.1 Forward Current Derating Curve

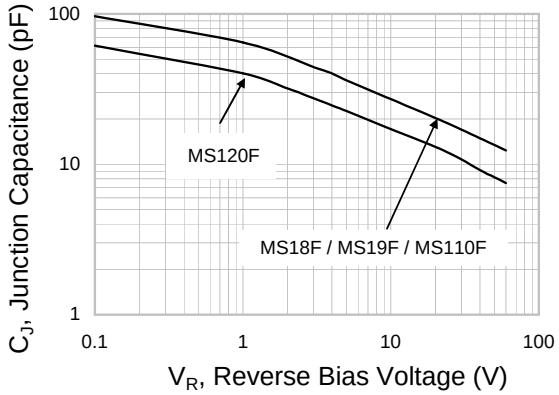


Fig.2 Typical Junction Capacitance

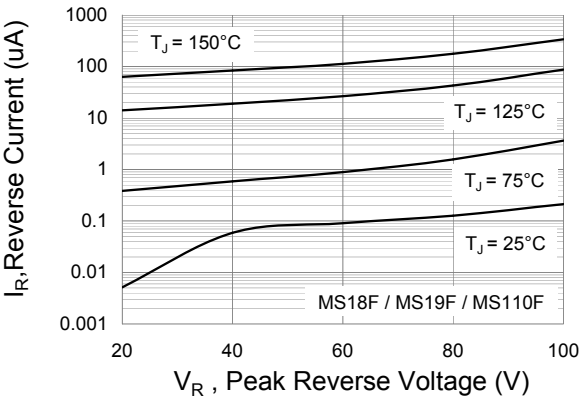


Fig.3 Typical Reverse Characteristics

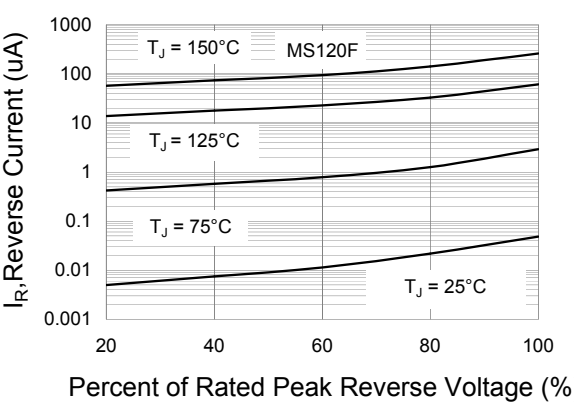


Fig.4 Typical Reverse Characteristics

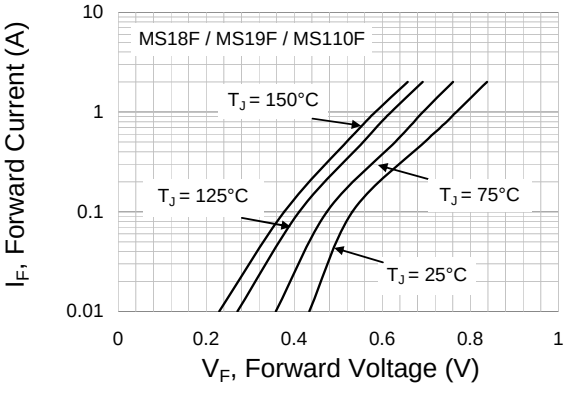


Fig.5 Typical Forward Characteristics

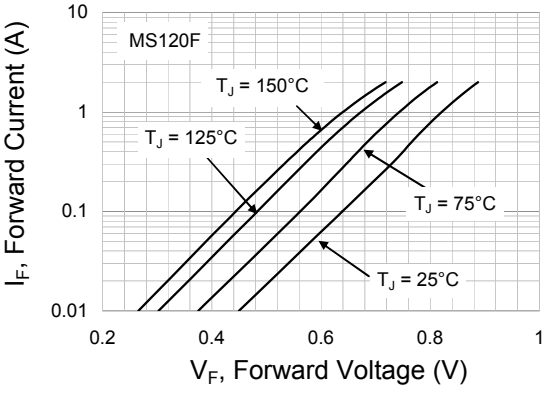
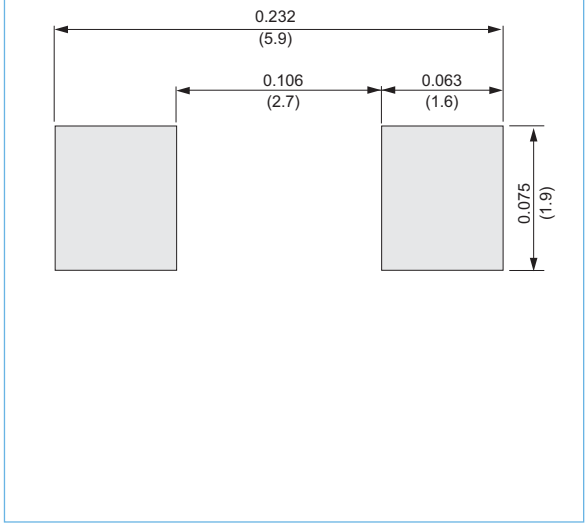


Fig.6 Typical Forward Characteristics

MS18F 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

LEGAL STATEMENT

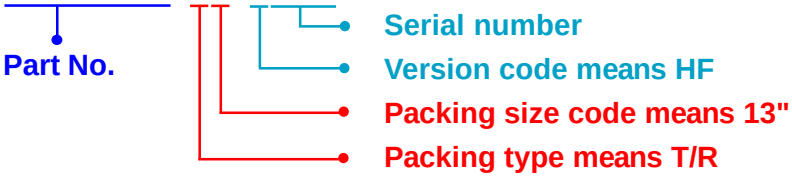
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MS18F SERIES

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1st Code	Packing size code	2nd Code	HF or RoHS	1st Code	2nd~5th Code
T/B	A	N/A	0	HF	0	serial number
T/R	R	7"	1	RoHS	1	serial number
B/P	B	13"	2			
T/P	T	26mm	X			
TRR	S	52mm	Y			
TRL	L	PBCU	U			
FORMING	F	PBCD	D			

Part No_packing code_Version

MS18F_R1_00001

MS18F_R2_00001

MS18F_00001