



Surface Mount Low V_F Schottky Barrier Rectifier

Voltage

100 V

Current

10 A

Features

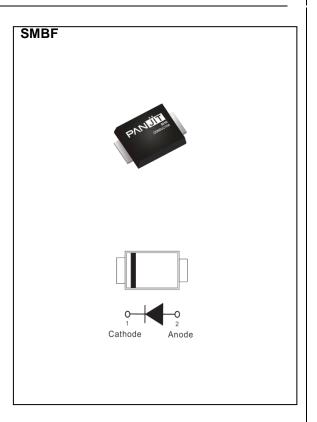
- Low power loss, high efficiency
- High surge current capability
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

• Case: SMBF Package

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

• Approx. Weight: 0.05 grams



Maximum Ratings and Thermal Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS		
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	100	V	
Maximum RMS Voltage		V_{RMS}	70	V	
Maximum DC Blocking Voltage		V _{DC}	100	V	
Maximum Average Forward Current		I _{F(AV)}	10	А	
Peak Forward Surge Current : 8.3 ms Single Half Sine- Wave Superimposed On Rated Load		I _{FSM}	140	А	
Typical Junction Capacitance Measured at 1 MHZ And Applied V _R = 4 V		₂	600	pF	
	(Note 1)	RθJA	135		
Typical Thermal Resistance	(Note 2)	Rejc	17	°C/W	
	(Note 2)	ReJL	19		
Operating Junction Temperature Range		TJ	-55~150	°C	
Storage Temperature Range		T _{STG}	-55~150	°C	





Electrical Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V _F	I _F = 3 A, T _J = 25 °C	-	0.48	ı	V
		I _F = 5 A, T _J = 25 °C	-	0.54	-	
		I _F = 10 A, T _J = 25 °C	-	ı	0.72	
		I _F = 3 A, T _J = 125 °C	-	0.41	-	
		I _F = 5 A, T _J = 125 °C	-	0.49	-	
		I _F = 10 A, T _J = 125 °C	-	0.6	-	
Reverse Current ^(Note 3)	I _R	V _R = 80 V, T _J = 25 °C	-	3	-	uA
		V _R = 100 V, T _J = 25 °C	-	ı	50	
		V _R = 100V,T _J = 125 °C	-	5.3	-	mA

NOTES:

- 1. Mounted on a FR4 PCB, single-sided copper, standard footprint.
- 2. Mounted on a FR4 PCB, single-sided copper, with 100 cm² copper pad area.
- 3. Short duration pulse test used to minimize self-heating effect.





TYPICAL CHARACTERISTIC CURVES

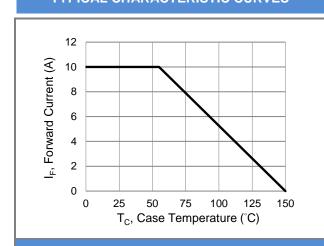


Fig.1 Forward Current Derating Curve

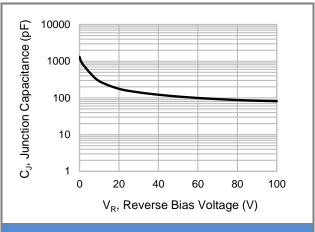


Fig.2 Typical Junction Capacitance

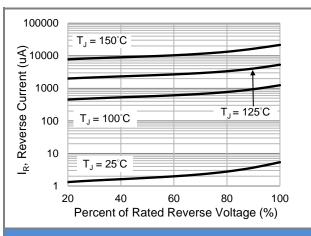


Fig.3 Typical Reverse Characteristics

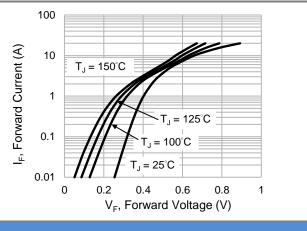
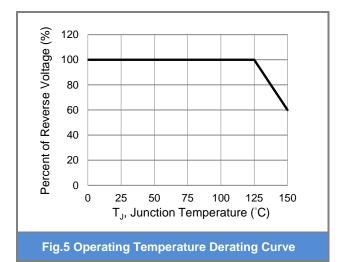


Fig.4 Typical Forward Characteristics



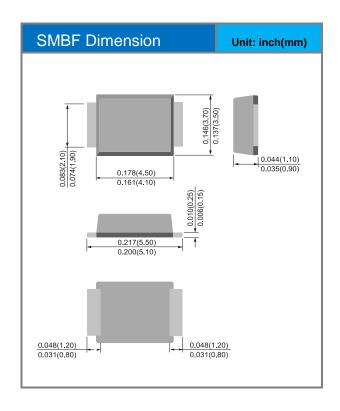


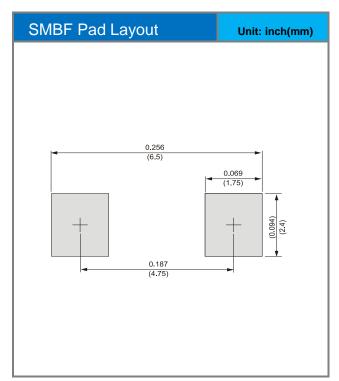


Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
STR10100LBF_R1_00701	SMBF	1.5K / 7" Reel	STR10100LBF	Halogen free RoHS compliant

Packaging Information & Mounting Pad Layout









Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are
 responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no
 representation or warranty that such applications will be suitable for the specified use without further testing or
 modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

单击下面可查看定价,库存,交付和生命周期等信息

>>Panjit(强茂)