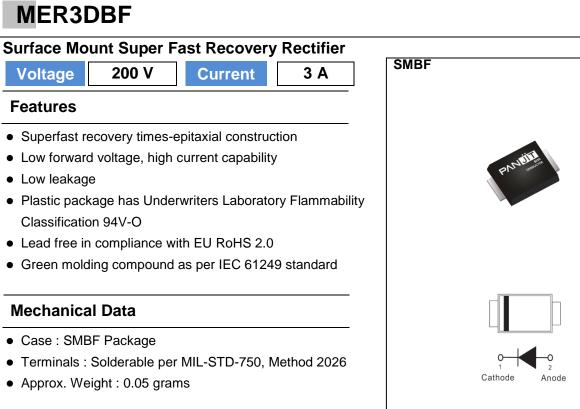


Voltage

Features

MER3DBF



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

PARAMETER	SYMBOL	LIMIT	UNITS	
Maximum Repetitive Peak Reverse Voltage		Vrrm	200	V
Maximum RMS Voltage		Vrms	140	V
Maximum DC Blocking Voltage		V _{DC}	200	V
Maximum Average Forward Current		I _{F(AV)}	3	А
Peak Forward Surge Current : 8.3 ms Single Half Sine- Wave Superimposed On Rated Load		I _{FSM}	75	А
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$		CJ	31	pF
Typical Thermal Resistance	(Note 1)	Reja	135	
	(Note 2)	Rejc	21	°C/W
	(Note 2)	Rejl	18	
Operating Junction Temperature Range		TJ	-55~175	°C
Storage Temperature Range		T _{STG}	-55~175	°C





PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
	STWBOL		-	0.79		V	
Forward Voltage	VF	I⊧ = 1 A, TJ = 25 °C	-		-	V	
		I _F = 2 A, T _J = 25 °C	-	0.85	-	V	
		$I_F = 3 \text{ A}, T_J = 25 ^{\circ}\text{C}$	-	-	0.95	V	
		I _F = 1 A, T _J = 125 °C	-	0.65	-	V	
		I _F = 2 A, T _J = 125 °C	-	0.73	-	V	
		I _F = 3 A, T _J = 125 °C	-	0.78	-	V	
Reverse Current	I _R	V _R = 160 V, T _J = 25 °C	-	3	-	nA	
		$V_R = 200 V, T_J = 25 \circ C$	-	-	1		
		$V_R = 200 V, T_J = 125 ^{\circ}C$	-	-	50	uA	
Reverse Recovery Time	T _{RR}	$I_F = 0.5 \text{ A}, I_R = 1 \text{ A},$		-	35	ns	
		I _{RR} = 0.25 A, T _J = 25 °C	-				
Reverse Recovery Time	T _{RR}	I _F = 3 A, V _R = 200 V	-	20	-	ns	
Peak Recovery Current	Irrm	di/dt = 300 A/uS	-	4.6	-	А	
Reverse Recovery Charge	Q _{RR}	T _J = 25 °C	-	52	-	nC	
Reverse Recovery Time	T _{RR}	I _F = 3 A, V _R = 200 V	-	30	-	ns	
Peak Recovery Current	I _{RRM}	di/dt = 300A/uS	-	6.9	-	А	
Reverse Recovery Charge	Q _{RR}	T _J = 125 °C	-	110	-	nC	

NOTES :

- 1. Mounted on a FR4 PCB, single-sided copper, standard footprint.
- 2. 2. Mounted on a FR4 PCB, single-sided copper, with 100 cm² copper pad area.



TYPICAL CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

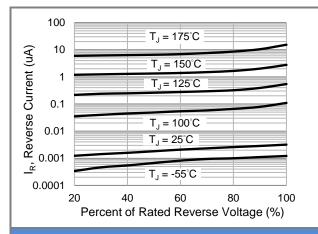
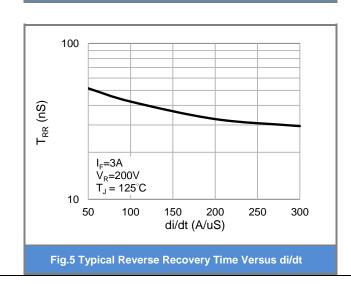


Fig.3 Typical Reverse Characteristics



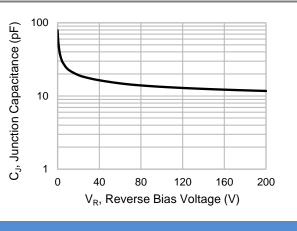


Fig.2 Typical Junction Capacitance

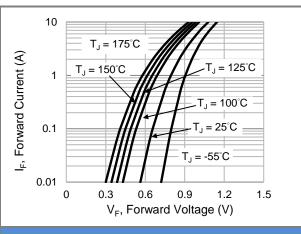
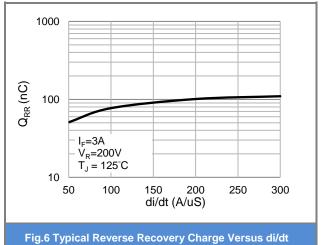


Fig.4 Typical Forward Characteristics

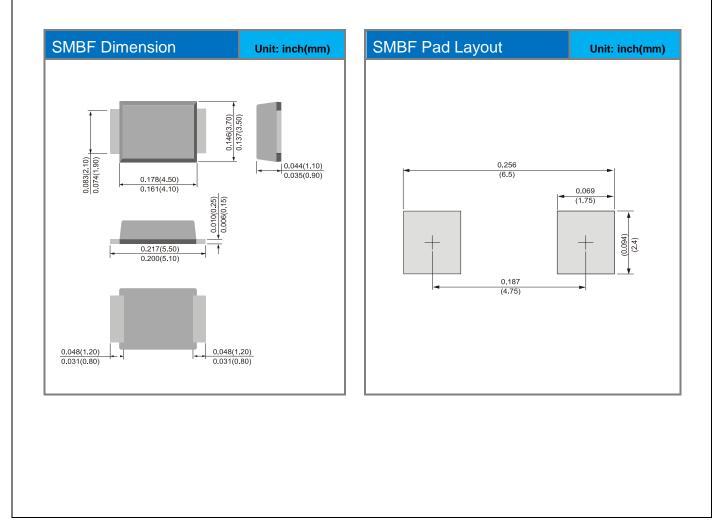




Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
MER3DBF_R1_00701	SMBF	1.5K / 7" Reel	MER3DBF	Halogen free RoHS compliant

Packaging Information & Mounting Pad Layout





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