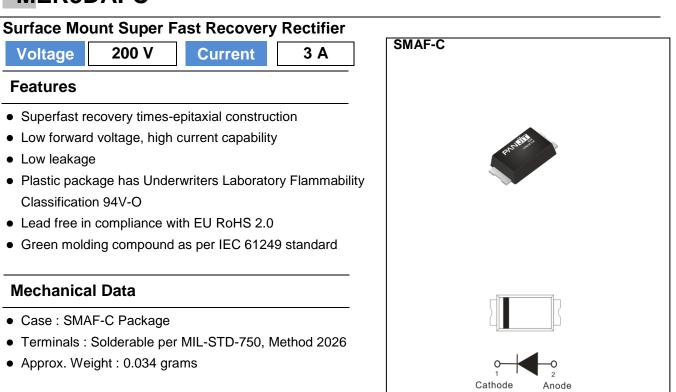


Voltage

Features

MER3DAFC



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		V _{RMS}	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		IFSM	75	А	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$		CJ	31	pF	
	(Note 1)	R _{0JA}	150	°C/W	
Typical Thermal Resistance	(Note 2)	Rejc	23		
	(Note 2)	Rejl	20		
Operating Junction Temperature Range		TJ	-55~175	٥C	
Storage Temperature Range		Tstg	-55~175	٥C	



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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Forward Voltage	VF	I _F = 1 A, T _J = 25 °C	-	0.79	-	V	
		I _F = 2 A, T _J = 25 °C	-	0.85	-	V	
		I _F = 3 A, T _J = 25 °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⊧ = 3 A, TJ = 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}	$I_F = 0.5 A$, $I_R = 1 A$,		-	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. Mounted on a FR4 PCB, single-sided copper, with 100 cm² copper pad area.



TYPICAL CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

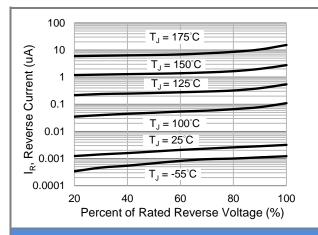
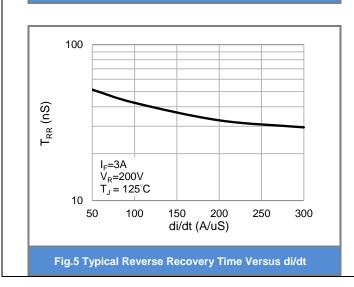


Fig.3 Typical Reverse Characteristics



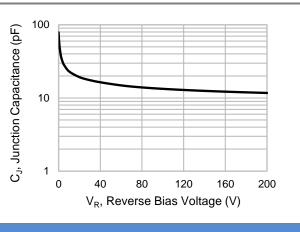


Fig.2 Typical Junction Capacitance

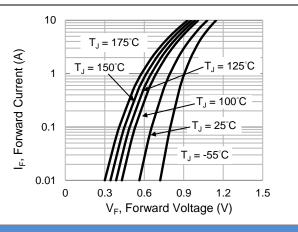
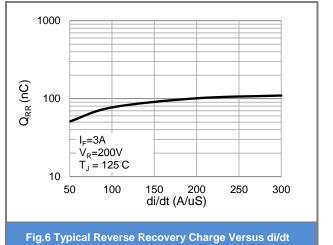


Fig.4 Typical Forward Characteristics



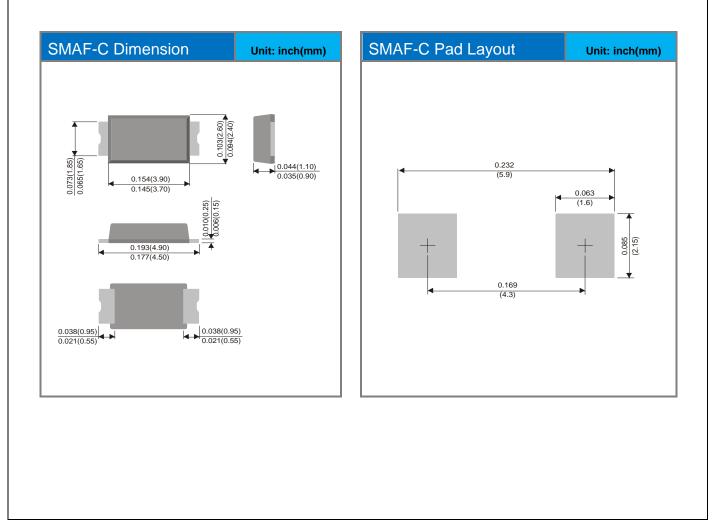
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Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
MER3DAFC_R1_00701	SMAF-C	3K / 7" Reel	MER3D	Halogen free RoHS compliant

Packaging Information & Mounting Pad Layout





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