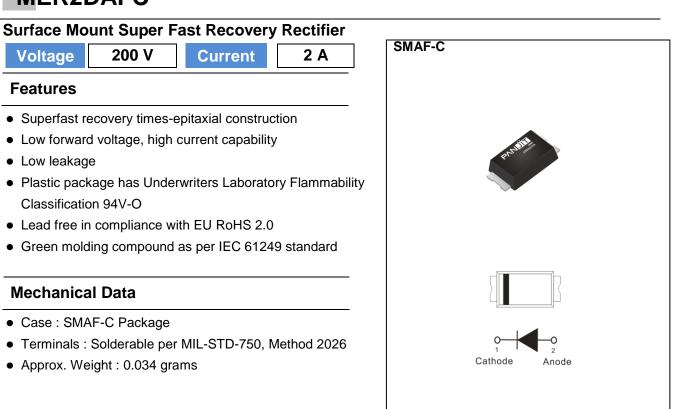


Voltage

Features

Low leakage

MER2DAFC



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

PARAMETER	SYMBOL	LIMIT	UNITS		
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	200	V	
Maximum RMS Voltage		V _{RMS}	140	V	
Maximum DC Blocking Voltage	V _{DC}	200	V		
Maximum Average Forward Current		I _{F(AV)}	2	А	
Peak Forward Surge Current : 8.3 ms Single Half Sine- Wave Superimposed On Rated Load		IFSM	60	А	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$		CJ	25	pF	
Typical Thermal Resistance	(Note 1)	R _{0JA}	150	°C/W	
	(Note 2)	R _{θJC}	23		
	(Note 2)	$R_{\theta JL}$	20		
Operating Junction Temperature Range		TJ	-55~175	°C	
Storage Temperature Range		Tstg	-55~175	°C	



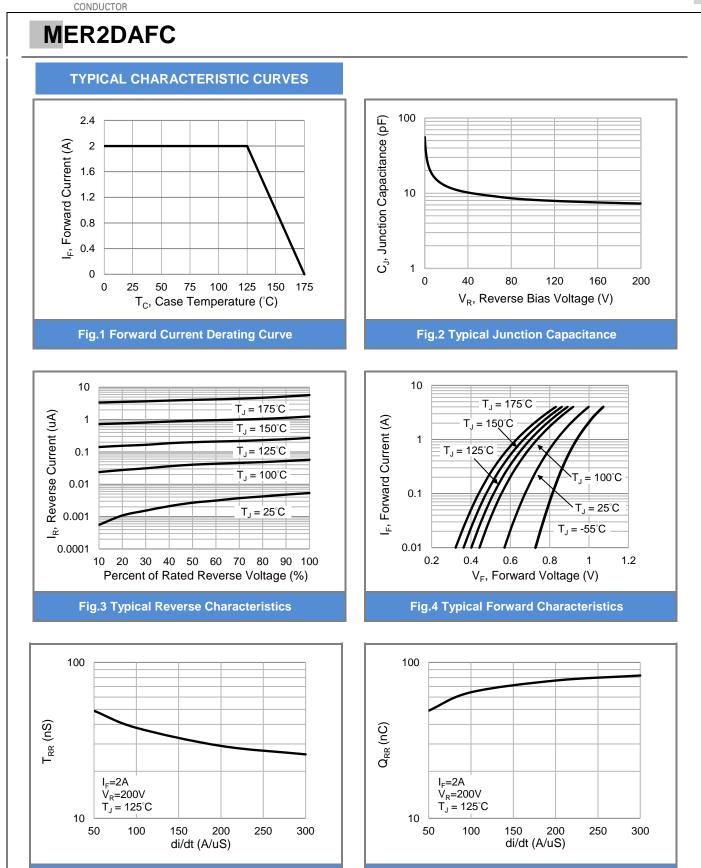
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Electrical Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	VF	I _F = 1 A, T _J = 25 °C	-	0.83	-	V
		I _F = 2 A, T _J = 25 °C	-	-	0.95	V
		I _F = 1 A, T _J = 125 °C	-	0.7	-	V
		I _F = 2 A, T _J = 125 °C	-	0.78	-	V
Reverse Current	IR	V _R = 160 V, T _J = 25 °C	-	5	-	nA
		V _R = 200 V, T _J = 25 °C	-	-	1	uA
		$V_R = 200 V, T_J = 125 ^{\circ}C$	-	-	40	
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 = 2 A, V _R = 200 V	-	17	-	ns
Peak Recovery Current	I _{RRM}	di/dt = 300 A/uS	-	3.9	-	А
Reverse Recovery Charge	Q _{RR}	T _J = 25 °C	-	39	-	nC
Reverse Recovery Time	T _{RR}	I _F = 2 A, V _R = 200 V	-	26	-	ns
Peak Recovery Current	IRRM	di/dt = 300A/uS	-	5.6	-	А
Reverse Recovery Charge	Q _{RR}	T _J = 125 °C	-	83	-	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.



PANJ

SEM

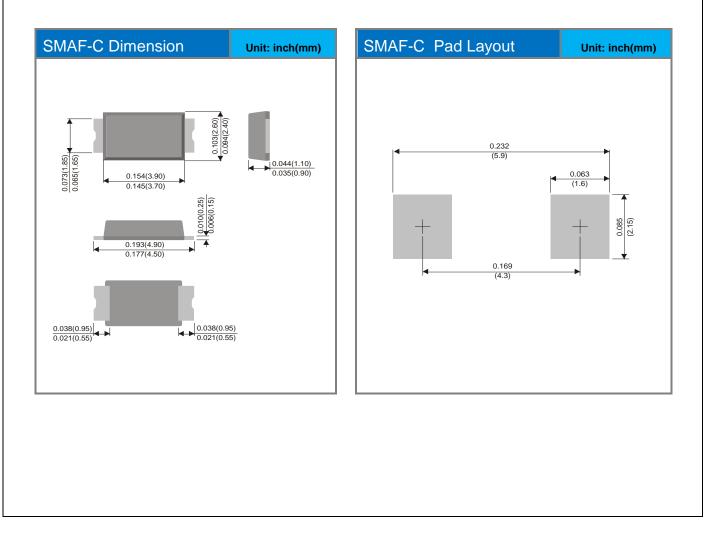


MER2DAFC

Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
MER2DAFC_R1_00701	SMAF-C	3K / 7" Reel	MER2D	Halogen free RoHS compliant

Packaging Information & Mounting Pad Layout





MER2DAFC

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