



Surface Mount Super Fast Recovery Rectifier

Voltage 200 V Current 1 A

Features

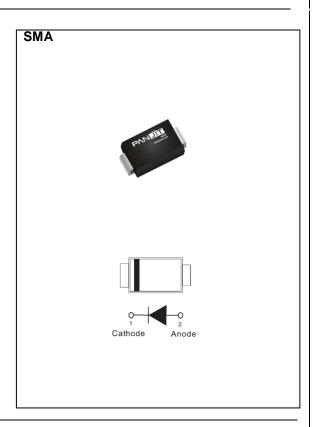
- Superfast recovery times-epitaxial construction
- Low forward voltage, high current capability
- Low leakage
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

• Case: SMA Package

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

• Approx. Weight: 0.0024 ounces, 0.0679 grams



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)}	1	Α
Peak Forward Surge Current: 8.3 ms Single Half Sine- Wave Superimposed On Rated Load		I _{FSM}	35	А
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 \text{ V}$		Сл	17	pF
Typical Thermal Resistance	(Note 1)	Reja	150	
	(Note 2)	Rejc	16	°C/W
	(Note 2)	ReJL	22	
Operating Junction Temperature Range		TJ	-55~175	°C
Storage Temperature Range		T _{STG}	-55~175	°C





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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Forward Voltage	VF	I _F = 0.5 A, T _J = 25 °C	-	0.83	-	V	
		I _F = 1 A, T _J = 25 °C	ı	ı	0.95	V	
		I _F = 0.5 A, T _J = 125 °C	-	0.69	-	V	
		I _F = 1 A, T _J = 125 °C	-	0.77	-	V	
Reverse Current	I _R	V _R = 160 V, T _J = 25 °C	1	3	ı	nA	
		V _R = 200 V, T _J = 25 °C	ı	ı	1	uA	
		V _R = 200 V, T _J = 125 °C	ı	0.3	ı		
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			30	110	

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

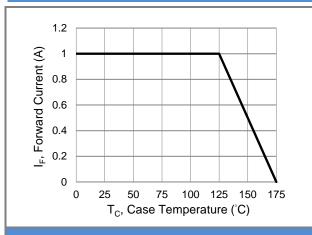


Fig.1 Forward Current Derating Curve

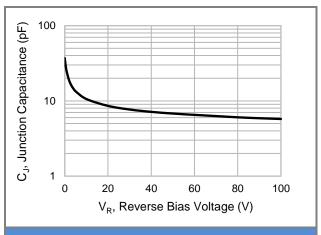


Fig.2 Typical Junction Capacitance

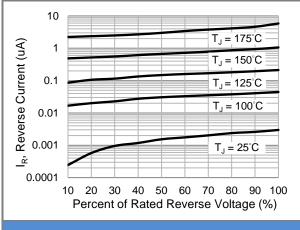


Fig.3 Typical Reverse Characteristics

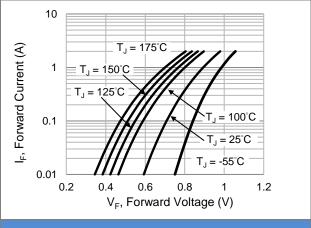


Fig.4 Typical Forward Characteristics

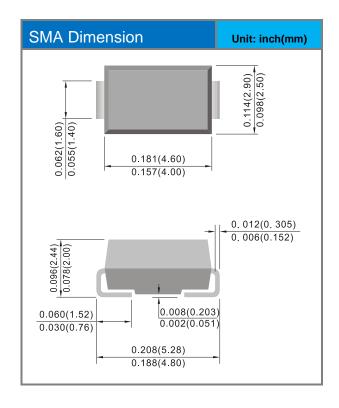


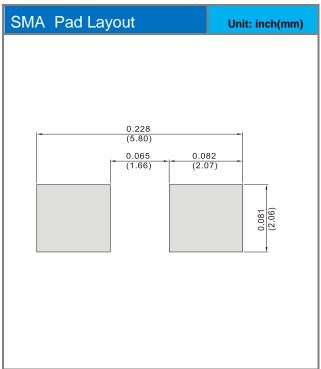


Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
MER1DMA_R2_00001	SMA	7.5K pcs / 13" reel	MER1DA	Halogen free RoHS compliant

Packaging Information & Mounting Pad Layout









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