

Voltage

**Features** 

Low leakage

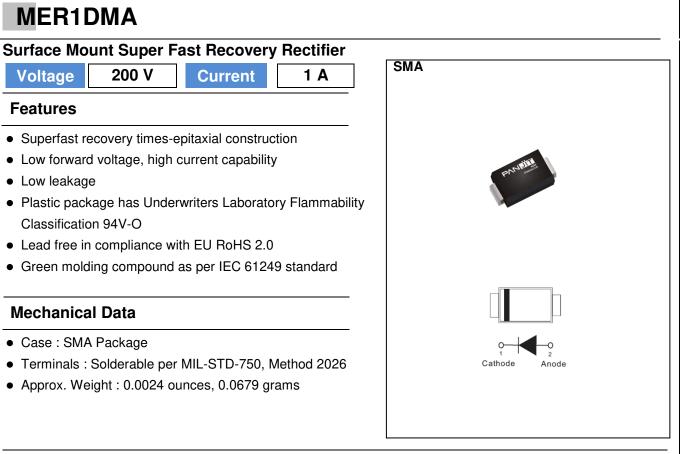
Classification 94V-O

**Mechanical Data** 

• Case : SMA Package

### **MER1DMA**

200 V



### Maximum Ratings and Thermal Characteristics (T<sub>A</sub> = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS	
Maximum Repetitive Peak Reverse Voltage		V <sub>RRM</sub>	200	V
Maximum RMS Voltage	VRMS	140	V	
Maximum DC Blocking Voltage	V <sub>DC</sub>	200	V	
Maximum Average Forward Current	I <sub>F(AV)</sub>	1	А	
Peak Forward Surge Current : 8.3 ms Single Half Sine- Wave Superimposed On Rated Load		I <sub>FSM</sub>	35	А
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_B = 4 V$		CJ	17	pF
	(Note 1)	Reja	150	
Typical Thermal Resistance	(Note 2)	Rejc	16	°C/W
	(Note 2)	Rejl	22	
Operating Junction Temperature Range		TJ	-55~175	٥C
Storage Temperature Range		Тѕтб	-55~175	°C

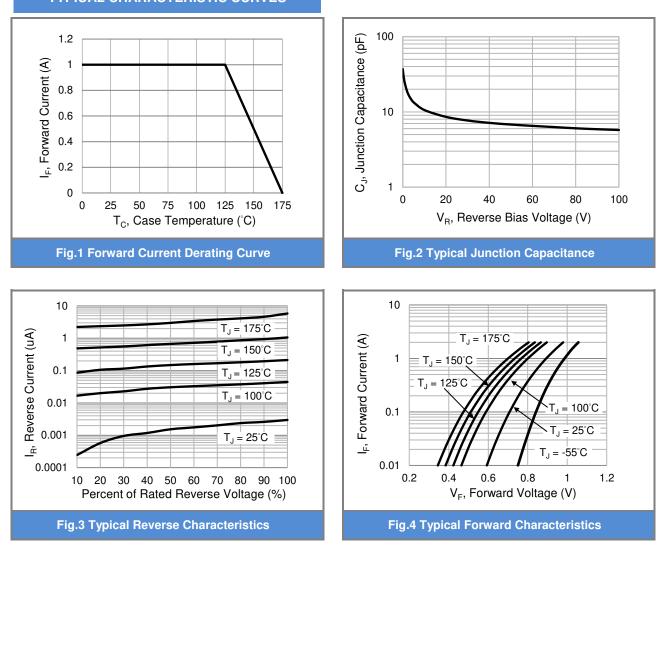


PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Forward Voltage	VF	I <sub>F</sub> = 0.5 A, T <sub>J</sub> = 25 °C	-	0.83	-	V	
		I <sub>F</sub> = 1 A, T <sub>J</sub> = 25 °C	-	-	0.95	V	
		I <sub>F</sub> = 0.5 A, T <sub>J</sub> = 125 °C	-	0.69	-	V	
		I <sub>F</sub> = 1 A, T <sub>J</sub> = 125 °C	-	0.77	-	V	
Reverse Current	IR	$V_R = 160 V, T_J = 25 \circ C$	-	3	-	nA	
		$V_R = 200 V, T_J = 25 \circ C$	-	-	1		
		$V_R = 200 V, T_J = 125 ^{\circ}C$	-	0.3	-	uA	
Reverse Recovery Time	T <sub>RR</sub>	$I_F = 0.5 A, I_R = 1 A,$	-	-	35	ns	
		$I_{RR} = 0.25 \text{ A}, \text{ T}_{J} = 25 ^{\circ}\text{C}$			_	_	

NOTES :

- 1. Mounted on a FR4 PCB, single-sided copper, standard footprint.
- 2. Mounted on a FR4 PCB, single-sided copper, with 100 cm<sup>2</sup> copper pad area.



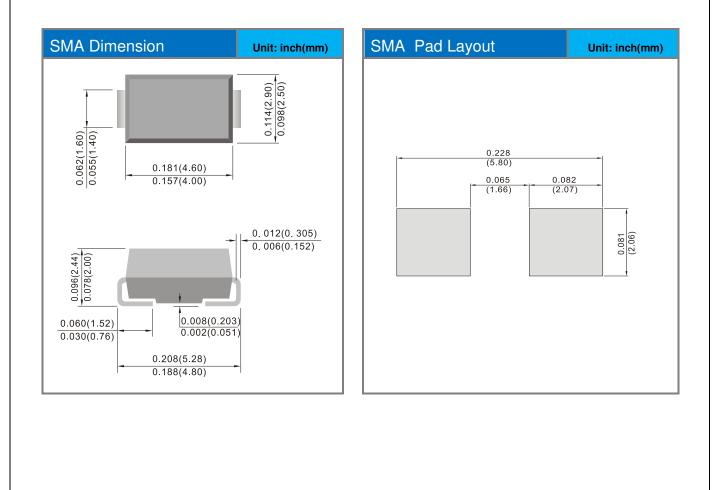




#### Part No. Packing Code Version

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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