

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		VDC	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		I _{FSM}	60	А
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$		CJ	25	pF
	(Note 1)	Reja	150	
Typical Thermal Resistance	(Note 2)	Rejc	16	°C/W
	(Note 2)	R _{θJL}	20	
Operating Junction Temperature Range		TJ	-55~175	°C
Storage Temperature Range		Tstg	-55~175	°C

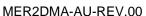


Electrical Characteristics	$(T_A = 25 \degree C \text{ unless otherwise noted})$
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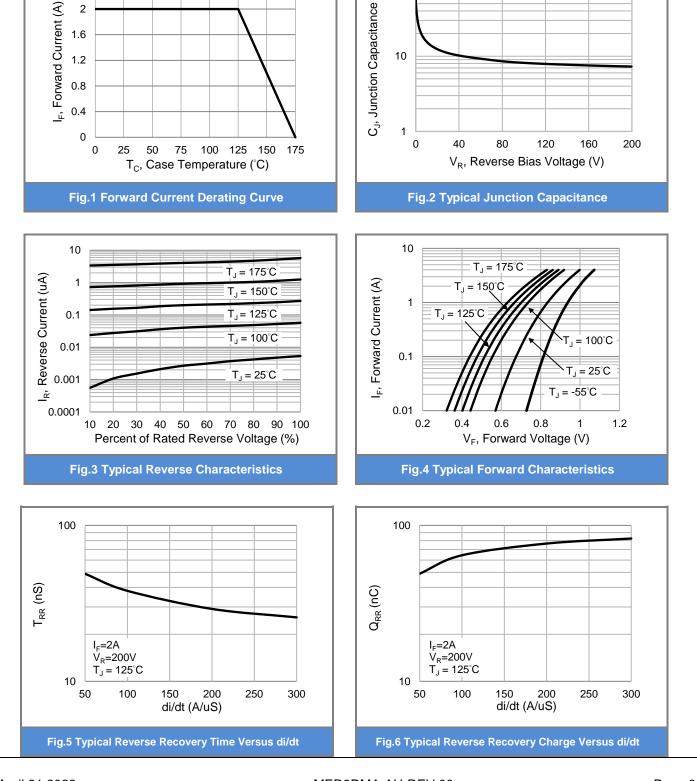
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
	VF	I _F = 1 A, T _J = 25 °C	-	0.83	-	V	
		I _F = 2 A, T _J = 25 °C	-	-	0.95	V	
Forward Voltage		I _F = 1 A, T _J = 125 °C	-	0.7	-	V	
		I _F = 2 A, T _J = 125 °C	-	0.78	-	V	
	IR	V _R = 160 V, T _J = 25 °C	-	5	-	nA	
Reverse Current		$V_R = 200 V, T_J = 25 \circ C$	-	-	1		
		$V_R = 200 V, T_J = 125 ^{\circ}C$	-	-	40	uA	
	- -	$I_F = 0.5 \text{ A}, I_R = 1 \text{ A},$		-	35	ns	
Reverse Recovery Time	T _{RR}	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	

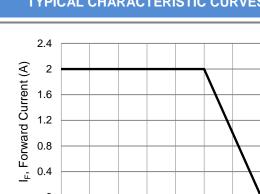
NOTES :

- 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.

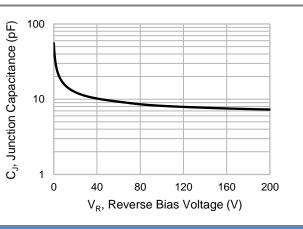


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SEM CONDUCTOR **MER2DMA-AU**



TYPICAL CHARACTERISTIC CURVES

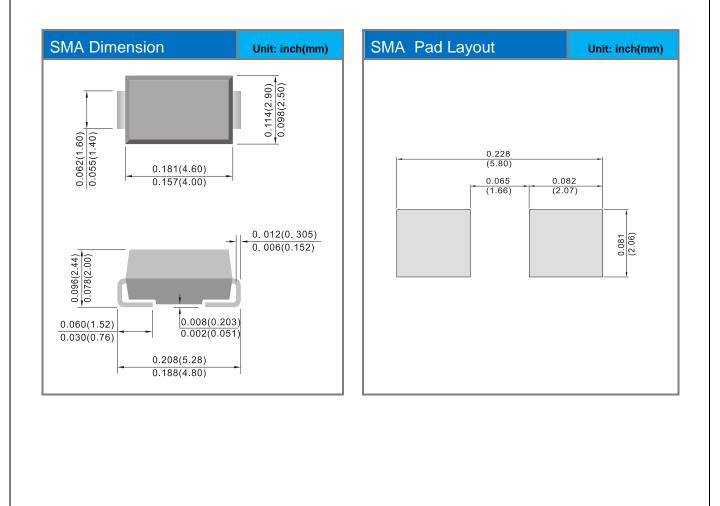
PANJ



Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
MER2DMA-AU_R2_006A1	SMA	7.5K pcs / 13" reel	MER2DA	Halogen free RoHS compliant

Packaging Information & Mounting Pad Layout





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