

### 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>	2	A
Peak Forward Surge Current : 8.3 ms Single Half Sine- Wave Superimposed On Rated Load		I <sub>FSM</sub>	60	А
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$		CJ	25	pF
	(Note 1)	Reja	185	
Typical Thermal Resistance	(Note 2)	Rejc	25	°C/W
	(Note 2)	Rejl	21	
Operating Junction Temperature Range		TJ	-55~175	٥C
Storage Temperature Range		Тѕтс	-55~175	٥C

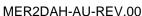


<b>Electrical Characteristics</b>	$(T_A = 25 \degree C \text{ unless otherwise noted})$
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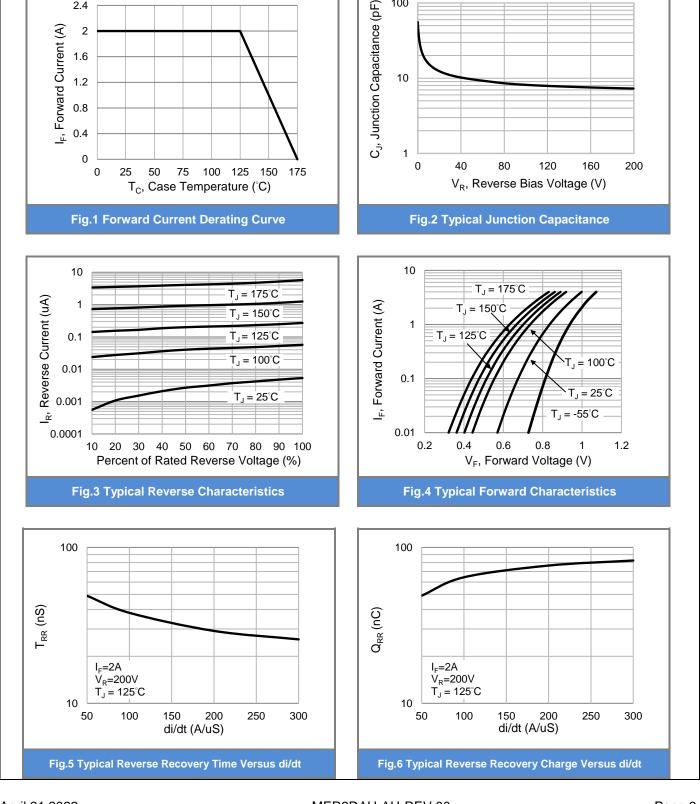
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	VF	I <sub>F</sub> = 1 A, T <sub>J</sub> = 25 °C	-	0.83	-	V
		I <sub>F</sub> = 2 A, T <sub>J</sub> = 25 °C	-	-	0.95	V
		I <sub>F</sub> = 1 A, T <sub>J</sub> = 125 °C	-	0.7	-	V
		I <sub>F</sub> = 2 A, T <sub>J</sub> = 125 °C	-	0.78	-	V
Reverse Current	IR	V <sub>R</sub> = 160 V, T <sub>J</sub> = 25 °C	-	5	-	nA
		$V_R = 200 V, T_J = 25 \circ C$	-	-	1	uA
		$V_R = 200 V, T_J = 125 ^{\circ}C$	-	-	40	
	T <sub>RR</sub>	$I_F = 0.5 \text{ A}, I_R = 1 \text{ A},$		-	35	ns
Reverse Recovery Time		I <sub>RR</sub> = 0.25 A, T <sub>J</sub> = 25 °C	-			
Reverse Recovery Time	T <sub>RR</sub>	I <sub>F</sub> = 2 A, V <sub>R</sub> = 200 V	-	17	-	ns
Peak Recovery Current	I <sub>RRM</sub>	di/dt = 300 A/uS	-	3.9	-	А
Reverse Recovery Charge	Q <sub>RR</sub>	T <sub>J</sub> = 25 °C	-	39	-	nC
Reverse Recovery Time	T <sub>RR</sub>	I <sub>F</sub> = 2 A, V <sub>R</sub> = 200 V	-	26	-	ns
Peak Recovery Current	Irrm	di/dt = 300A/uS	-	5.6	-	А
Reverse Recovery Charge	Q <sub>RR</sub>	T <sub>J</sub> = 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 cm<sup>2</sup> copper pad area.



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### **TYPICAL CHARACTERISTIC CURVES**

**MER2DAH-AU** 

PANJ SEM CONDUCTOR

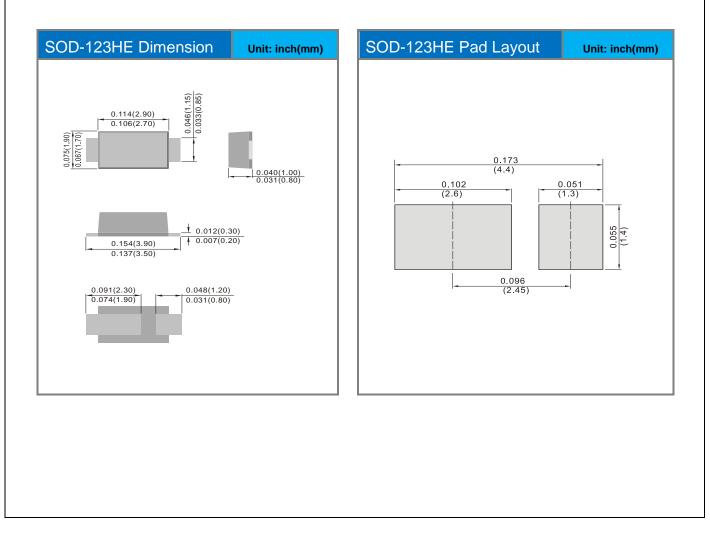
2.4



#### Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
MER2DAH-AU_R1_007A1	SOD-123HE	3K / 7" Reel	M2D	Halogen free RoHS compliant

### Packaging Information & Mounting Pad Layout





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