# MOTOR® LA 20100CT1供应商 SEMICONDUCTOR TECHNICAL DATA

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DC Blocking Voltage		V <sub>R</sub>		
Average Rectified Forward Current (At Rated V <sub>R</sub> , T <sub>C</sub> = 110°C)	Per Leg Per Package	lF(AV)	10 20	Amps
Peak Repetitive Forward Current (At Rated V <sub>R</sub> , Square Wave, 20 kHz, T <sub>C</sub> = 100°C)	Per Leg	<sup>I</sup> FRM	20	Amps
Non-Repetitive Peak Surge Current (Surge applied at rated load conditions, halfwave, single phase, 6	Per Package 60 Hz)	IFSM	150	Amps
Peak Repetitive Reverse Surge Current (2.0 $\mu$ s, 1.0 kHz)		IRRM	0.5	Amp
Storage / Operating Case Temperature	02.91	T <sub>stg</sub> , T <sub>C</sub>	-65 to +175	°C
Operating Junction Temperature	516 31	Тј	-65 to +150	°C
Voltage Rate of Change		dv/dt	10,000	V/µs
THERMAL CHARACTERISTICS				

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#### **ELECTRICAL CHARACTERISTICS**

Maximum Instantaneous Forward Voltage <sup>(1)</sup> , see Figure 2 IF = 1.0 Adc IF = 2.0 Adc	Per Leg	VF	TJ = 25°C	Tj = 125°C	Volts
			0.85 0.95	0.75 0.85	
Maximum Instantaneous Reverse Current, see Figure 4 $V_R$ = 100 V	Per Leg	I <sub>R</sub>	TJ = 25°C	Tj = 125°C	mA
			0.1	6.0	

(1) Pulse Test: Pulse Width  $\leq \mu s$ , Duty Cycle  $\leq 2\%$ .



Figure 1. Typical Forward Voltage Per Diode





Per Leg



Figure 4. Average Power Dissipation and Average Current

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### PACKAGE DIMENSIONS



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