

## Fast Recovery Rectifier

### INCHANGE SEMICONDUCTOR

## AK20200CT

<ul><li> Low for</li><li> Minimum</li></ul>	<b>ES</b> r TO-220 package ward voltage drop m Lot-to-Lot variations for robust device nance and reliable operation			PIN:1 Anode 2 Cathode 3 Anode 1 2 3 TO-220 Package
• Power s • Genera	TIONS ng power supply switching circuits I purpose TE MAXIMUM RATINGS(Ta=25°C)			
SYMBOL	PARAMETER	VALUE	UNIT	
V <sub>RRM</sub> V <sub>RWM</sub> VR	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	200	V	
I <sub>F(AV)</sub>	Average Rectified Forward Current Per Leg Total device	10 20	A	mm   DIM MIN MAX   A 15.50 15.90
I <sub>FSM</sub>	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 60Hz)	100	А	B 9.80 10.20   C 4.20 4.50   D 0.70 0.90   F 3.40 3.70
P <sub>D</sub>	Maximum power dissipation	75	W	G 4.98 5.18   H 2.68 2.90   J 0.44 0.60
TJ	Junction Temperature	-65~150	°C	L 1.20 1.45 0 2.70 2.90 R 2.30 2.70
				S 1.29 1.35



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#### THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R <sub>th j-c</sub>	Thermal Resistance, Junction to Case	2.5	°C/W

### **ELECTRICAL CHARACTERISTICS(Ta=25℃)** (Pulse Test: Pulse Width=300 µ s,Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V <sub>F</sub>	Maximum Instantaneous Forward Voltage	I <sub>F</sub> =10A ;Tj=25 ℃	0.97	V
I <sub>R</sub>	Maximum Instantaneous Reverse Current	V <sub>R</sub> = V <sub>RWM</sub> ;Tj=125°C V <sub>R</sub> = V <sub>RWM</sub>	250 10	μA
trr	Maximum Reverse Recovery Time	IF =1A;di/dt = 50A/µs	35	ns

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