

TECHNICAL DATA
DATA SHEET 5067, REV. -

**FAST RECOVERY
SILICON RECTIFIER DIE**

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V_{RWM}	- 1C5415 1C5416 1C5417 1C5418 1C5419 1C5420	50 100 200 400 500 600	V (pk)
Max. Average Forward Current	$I_{F(AV)}$	@ 55°C	3.0	A dc
Max. Junction Temperature	T_J	-	-55 to +175	°C
Max. Storage Temperature	T_{stg}	-	-55 to +175	°C

Electrical Characteristics:

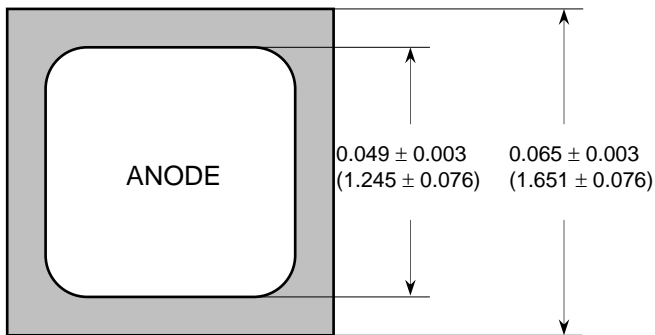
Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V_{F1}	$I_F=1.5A$	1.2	V dc
	V_{F2}	$I_F=9.0A$ dc, Pulse, $T_J = 25\text{ °C}$, Duty cycle $\leq 2\%$, pulse width $\leq 300\mu s$	1.5	V (pk)
Max. Reverse Current	I_{R1}	@ $V_R = V_{RWM}$, Pulse, $T_J = 25\text{ °C}$	1.0	μA dc
	I_{R2}	@ $V_R = V_{RWM}$, Pulse, $T_J = 100\text{ °C}$	20	μA dc
Reverse Recovery Time	t_{rr}	$I_f = 500mA$, $I_r = 1A$, $I_{rm} = 250mA$	150 150 150 150 250 400	ns

1C5415
1C5416
1C5417
1C5418
1C5419
1C5420

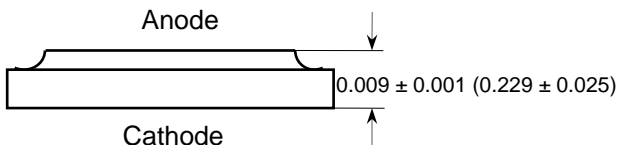
SENSITRON SEMICONDUCTOR

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Mechanical Dimensions: In Inches / mm



Top side metalization - Aluminum - 25 kÅ minimum.
Bottom side metalization - Ti/Ni/Ag - 30 kÅ minimum
Bottom side is cathode, top side is anode.



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