

**TECHNICAL DATA**  
**DATA SHEET 930, REV. C**

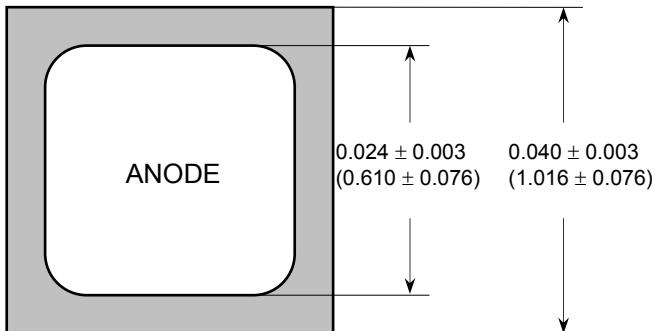
## **ULTRA FAST RECOVERY SILICON RECTIFIER DIE**

**Maximum Ratings:**

Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	$V_{RWM}$	-	150	V
DC Blocking Voltage	$V_R$			
Breakdown Voltage	$V_{BR}$			
Max. Average Forward Current	$I_{F(AV)}$	@ 55°C	1.0	A
Max. Peak One Cycle Non-Repetitive Surge Current	$I_{FSM}$	8.3 ms, sine pulse <sup>(1)</sup>	35	A
Die Size	-	-	40	mil
Max. Junction Temperature	$T_J$	-	-55 to +175	°C
Max. Storage Temperature	$T_{stg}$	-	-55 to +175	°C

**Electrical Characteristics:**

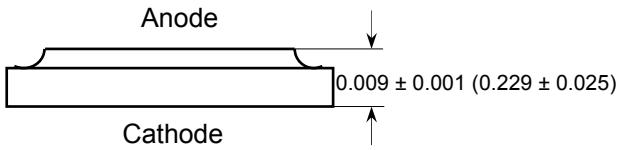
Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	$V_{F1}$	1A, pulse, $T_J = 25\text{ °C}$	0.875	V
	$V_{F2}$	2.5A, pulse, $T_J = 25\text{ °C}$	0.975	V
	$V_{F3}$	1A, pulse, $T_J = 100\text{ °C}$	0.800	V
Max. Reverse Current	$I_{R1}$	$V_R = V_{RWM}$ , pulse, $T_J = 25\text{ °C}$	1.0	$\mu\text{A}$
	$I_{R2}$	$V_R = V_{RWM}$ , pulse, $T_J = 100\text{ °C}$	50	$\mu\text{A}$
Reverse Recovery Time	$t_{rr}$	$I_F = I_R = 0.5\text{A}$ , $I_{RM} = 0.05\text{A}$	25	ns
Max. Junction Capacitance	$C_T$	$V_R = 10\text{V}$ , $T_C = 25\text{ °C}$ $f_{SIG} = 1\text{MHz}$ , $V_{SIG} = 50\text{mV (p-p)}$	25	pF

**SENSITRON**
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**Mechanical Dimensions: In Inches (mm)**


Bottom side metalization: Ti/Ni/Ag - 30 kÅ minimum.

Top side metalization: Al - 25 kÅ minimum

Bottom side is cathode, top side is anode.


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