

TECHNICAL DATA DATA SHEET 931, REV.B

FAST RECOVERY SILICON RECTIFIER DIE

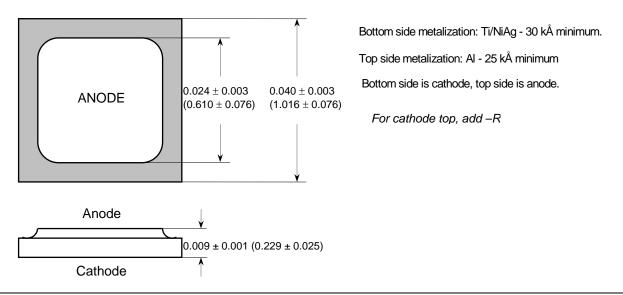
Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V_{RWM}	-		
1C4942			200	V
1C4944			400	
1C4946			600	
1C4947			800	
Max. Average Forward Current	I _{F(AV)}	@ 55°C	1.0	Α
Die Size	-	-	40	mil
Max. Junction Temperature	TJ	-	-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}	@ 1.0A, Pulse, T _J = 25 °C	1.3	V
		Duty cycle ≤ 2%, pulse width ≤ 300μs		
Max. Reverse Current	I _{R1}	@V _R = 400V, Pulse, T _J = 25 °C	1.0	μΑ
	I _{R2}	@V _R = 400V, Pulse, T _J = 100 °C	200	μΑ
Reverse Recovery Time	t _{rr}	$I_f = 500 \text{mA}, I_r = 1 \text{A}, I_{rm} = 250 \text{mA}$		
1C4942			150	ns
1C4944			150	
1C4946			250	
1C4947			250	

Mechanical Dimensions: In Inches / mm



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