TECHNICAL DATA SHEET DATA SHEET 5389, REV -

SILICON ULTRA-FAST RECOVERY EPITAXIAL RECTIFIER DIE

Applications:

• Switching Power Supply • Converters • Free-Wheeling Diodes • Polarity Protection Diode

Features:

- Glass Passivated Epitaxial Diode with Mesa Structure
- Soft Reverse Recovery at Low and High Temperature
- Low Forward Voltage Drop and Low Reverse Current
- Electrically and Mechanically Stable during and after Packaging

Maximum Ratings:

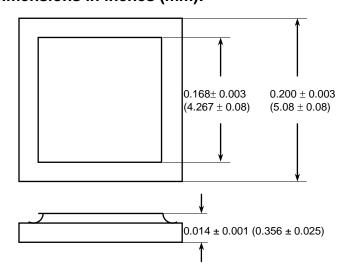
Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	$V_{RW\ M}$	-	400	V
Max. Output Current	Io	50% duty cycle, rectangular wave form; T _A = 75 °C	60	А
Max. Peak One Cycle Non- Repetitive Surge Current	I _{FSM}	8.3 ms, sine pulse (1)	450	Α
Max. Junction Temperature	TJ	-	-55 to +175	°C
Max. Storage Temperature	T _{stg}	-	-55 to +200	°C
Reverse Recovery Time	t _{rr}	I _F =0.5A, I _R =1.0A, I _{RM} =0.25A	60	nS

Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V_{F2}	60A, pulse, T _J = 25 °C	1.20	V
Max. Reverse Current	I _{R1}	$V_R = V_{RWM}$, pulse, $T_J = 25$ °C	20	μΑ
	I _{R2}	$V_R = V_{RWM}$, pulse, $T_J = 125$ °C	2000	μΑ

⁽¹⁾ in TO package

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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