TECHNICAL DATA DATA SHEET 5331 REV. A

SILICON SCHOTTKY RECTIFIER DIE

Applications:

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

Features:

- Ultra low Reverse Leakage Current
- Soft Reverse Recovery at Low and High Temperature
- Very Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Capacity
- Guard Ring for Enhanced Durability and Long Term Reliability
- Guaranteed Reverse Avalanche Characteristics
- Electrically / Mechanically Stable during and after Packaging
- Out Performs 150 Volt Ultrafast Rectifiers

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V_{RWM}	-	40	V
Max. Average Forward Current	I _{F(AV)}	50% duty cycle, rectangular wave form	3.0	Α
Max. Peak One Cycle Non- Repetitive Surge Current	I _{FSM}	8.3 ms, Sine pulse (1)	80	Α
Max. Junction Temperature	TJ	-	-55 to +125	°C
Max. Storage Temperature	T _{stq}	-	-55 to +125	°C

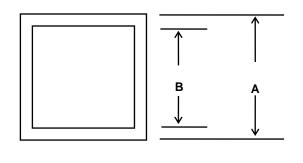
Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V_{F1}	@ 3.0A, Pulse, T _J = 25 °C	0.525	
	V_{F2}	@ 9.4A, Pulse, T _J = 25 °C	0.950	V
Max. Reverse Current	I _{R1}	$@V_R = 40V$, Pulse, $T_J = 25 ^{\circ}C$	2	mA
	I _{R2}	@V _R = 40V, Pulse,T _J = 100 °C	20	mA
Typical Junction Capacitance	Cj	$@V_R = 5.0 \text{ V}, T_J = 25^{\circ}C$	250	pF
		f = 1MHz		

(1) in SHD package

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Mechanical Dimensions: In Inches (mm)



Bottom side metalization Ag-5kA minimum **Top side metalization** Al-25kA minimum

Bottom side is cathode, top side is anode

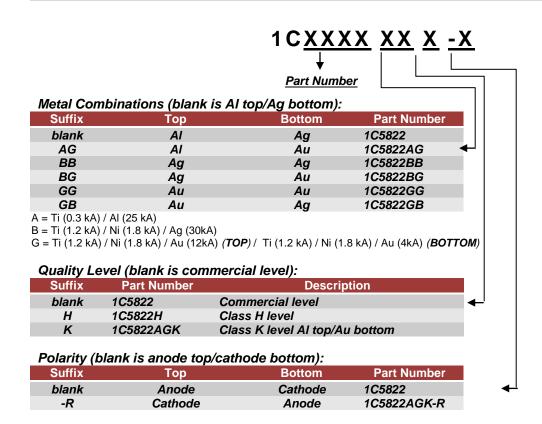
Dimension H = $0.0105\pm0.001(0.27\pm0.026)$

(Can be customized according to customer requirements)



Α	В
$0.060 \pm 0.003 (1.52 \pm 0.08)$	$0.054 \pm 0.003 (1.37 \pm 0.08)$

PART ORDERING INFORMATION:





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