

TECHNICAL DATA DATA SHEET D0120 REV. –

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

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V _{RWM}	-	100	V
Average Forward Current	I _{F(AV)}	50% duty cycle, rectangular wave form	30	A
Peak One Cycle Non- Repetitive Surge Current	I _{FSM}	8.3 ms, Sine pulse ⁽¹⁾	570	A
Junction Temperature	TJ	-	-55 to +200	°C
Storage Temperature	T _{stg}	-	-55 to +200	°C

Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop V _F		@ 30A, Pulse, T」 = 25 °C	0.84	V
	V _{F2}	@ 30A, Pulse, T」 = 125 °C	0.68	V
Reverse Current I _{R1}		@V _R = 100V, Pulse,	0.75	mA
		T _J = 25 °C		
	I _{R2}	@V _R = 100V, Pulse,	15	mA
		T _J = 125 °C		
Junction Capacitance	Ст	@V _R = 5V, T _C = 25 °C	1200	pF
		f _{SIG} = 1MHz,		
		V _{SIG} = 50mV (p-p)		

(1) in SHD package



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Mechanical Dimensions: In Inches (mm)





Bottom side metalization Ag-5kA minimum Top side metalization AI -25kA minimum Bottom side is cathode, top side is anode Dimension H =0.0105±0.001(0.27±0.026) (It can be customized according to customer requirements)

Α	В
0.175 ± 0.003(4.45 ± 0.008)	0.163 ± 0.003(4.14 ± 0.08)

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