Schottky Barrier Rectifier 1A High Voltage

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RoHS

Compliant



Applications:

- Polarity Protection Diode
- Re-Circulating Diode
- Blocking Diode
- DC-DC
- AC-DC

Features:

- · Guard Ring Die Construction for Transient Protection
- Ideally Suited for Automated Assembly
- · Low Power Loss, High Efficiency
- For Use in Low Voltage, High Frequency Inverters, Free
- Wheeling, and Polarity Protection Application
- High Temperature Soldering: +260°C/10 Second at Terminal

Mechanical Data:

: SMB
: Molded Plastic. "Green" Molding Compound. UL Flammability Classification Rating 94V-0
: Level 1 per J-STD-020
: Lead Free Plating (Matte Tin Finish). Solderable per MIL-STD-202, Method 208
: Cathode Band
: 0.093 grams (Approximate)

Product Summary (@ +25°C)

Vrrm (V)	lo (A)	VF Max (V)	IR Max (mA)
100	1	0.79	0.5

Maximum Ratings: $@T_A = 25^{\circ}C$ unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitance load, derate current by 20%.

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	100	V
RMS Reverse Voltage	V _{R(RMS)}	70	
Average Rectified Output Current @ T_{T} = 125°C	I _o	1	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	30	А
Repetitive Peak Reverse Current	I _{RRM}	1	

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Thermal Characteristics:

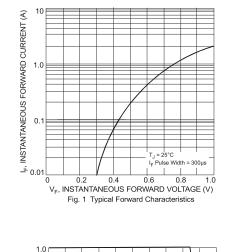
Characteristic	Symbol	Value	Unit
Typical Thermal Resistance Junction to Terminal (Note 1)	R _{ejt}	25	°C/W
Operating and Storage Temperature Range	T_,T _{STG}	-65 to +150	°C

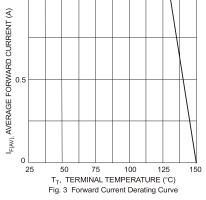
Electrical Characteristics: @TA = 25°C unless otherwise specified

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop	V _F	-	-	0.79 0.69	V	I _F = 1A, T _A = +25°C I _F = 1A, T _A = +100°C
Leakage Current (Note 2)	I _R	-	-	0.5 5	mA	@ Rated V _R , T _A = +25°C @ Rated V _R , T _A = +100°C
Total Capacitance	C _T	-	-	80	pF	V _R = 4V, f = 1MHz

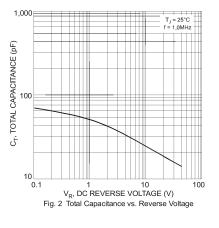
Notes: 1. Valid provided that terminals are kept at ambient temperature.

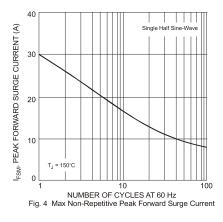
2. Short duration pulse test used to minimize self-heating effect.





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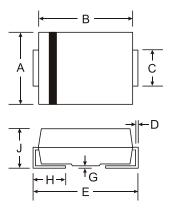






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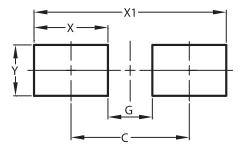
Package Outline Dimensions:



Dimensions	Min	Мах
А	3.3	3.94
В	4.06	4.57
С	1.96	2.21
D	0.15	0.31
E	5	5.59
G	0.5	0.2
Н	0.76	1.52
J	2	2.5

Dimensions : Millimetres

Suggested Pad Layout:



Dimensions	Value
С	4.3mm
G	1.8mm
Х	2.5mm
X1	6.8mm
Y	2.3mm

Part Number Table

Description	Part Number
1A High Voltage Schottky Barrier Rectifier	B1100-13-F

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